

Installation and Operation Manual for High Speed Dome Camera

VER: V1.0



15-CD55TWA

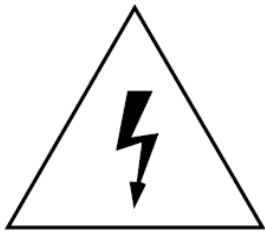


15-CD55TWA



15-CD52WI

Please read the operation manual carefully
before installing and using this unit



CAUTION

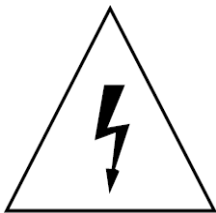
RISK OF ELECTRIC
SHOCK DO NOT OPEN



CAUTION: To reduce the risk of electrical shock, do not open covers.

No user serviceable parts inside.

Refer servicing to qualified service personal.



This lightning flash with arrowhead symbol is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: To prevent the risk of fire or electric shock hazard do not expose this camera to rain or moisture.

|| Important Safeguard

1. Read Instructions
Read all of the safety and operating instructions before using the product.
2. Retain Instructions
Save these instructions for future reference.
3. Attachments / Accessories
Do not use attachments or accessories unless recommended by the appliance manufacturer as they may cause hazards, damage product and void warranty.
4. Water and Moisture
Do not use this product near water or moisture.
5. Installation
Do not place or mount this product in or on an unstable or improperly supported location. Improperly installed product may fall, causing serious injury to a child or adult, and damage to the product. Use only with a mounting device recommended by the manufacturer, or sold with the product. To insure proper mounting, follow the manufacturer's instructions and use only mounting accessories recommended by manufacturer.
6. Power source
This product should be operated only from the type of power source indicated on the marking label.

|| Precautions

Operating

- Before using, make sure power supply and others are properly connected.
- While operating, if any abnormal condition or malfunction is observed, stop using the camera immediately and then contact your local dealer.

Handling

- Do not disassemble or tamper with parts inside the camera.
- Do not drop or subject the camera to shock and vibration as this can damage camera.
- Care must be taken when you clean the clear dome cover. Especially, scratch and dust will ruin your quality of camera.

Installation and Storage

- Do not install the camera in areas of extreme temperature, which exceed the allowable range.
- Avoid installing in humid or dusty places.
- Avoid installing in places where radiation is present.
- Avoid installing in places where there are strong magnetic fields and electric signals.
- Avoid installing in places where the camera would be subject to strong vibrations.
- Never expose the camera to rain and water.

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Features

Camera Specifications

- CCD Sensor: 1 / 4 " Interline Transfer CCD
- Camera Support: CZ36SCM(COP)
Zoom Magnification: x 36 Optical Zoom, x 32 Digital Zoom
- Camera Support: FCB-EX1020(SONY)
Zoom Magnification: x 36 Optical Zoom, x 12 Digital Zoom
- Camera Support: SCM-2270(SAMSUNG)
Zoom Magnification: x 27 Optical Zoom, x 16 Digital Zoom
- Camera Support: SCM-2370(SAMSUNG)
Zoom Magnification: x 37 Optical Zoom, x 16 Digital Zoom
- Day & Night Function
- Various Focus Mode: Auto-Focus / Manual Focus / Semi-Auto Focus.
- Independent and Simultaneous Camera Characteristic Setup in Preset operation

Main Features

- Step less speed changes, auto zoom/speed matching
- Pan 0.01~360°/S, Tilt 0.01°~120°/S (15-CD55TWA1)
- Pan 0.01~600°/S, Tilt 0.01°~120°/S (15-CD55TWA)
- Pan 0.01~120°/S, Tilt 0.01°~120°/S (15-CD52WI)
- Auto object track with zoom in/out and motion detection (15-CD55TWA1)
- Timing actions for 7 days of programmable schedule
- Built-in Semi-conductor heater & digital temperature sensor
- PWM cooling fan vari-speed temperature control
- Reserved network interface and space for network module
- Pan Tilt accuracy +/- 0.01°, 256 preset positions
- 8 cruising tracks, each cruising track has 32 presets
- 4 pattern tours, 10 Mins memory, 500 programmable instructions
- Multi-Protocol through RS485 or coaxial cable.
- 8 auto scan with use-defined left and right boundaries and settable scan speed
- 8 Privacy Zones with defined English camera title
- Auto Compatible PELCO_P, PELCO_D compatible
- Guard Location: the dome will rotate back to preset position after a period of vacant time
- Alarm triggering: the alarm can trigger preset, auto scan, cruising and pattern tours functions
- Soft Address Function: the use can set up the dome address without uninstall the dome

Integrated Super Speed PTZ Rotator..

- Delicate stepping motor, stable, sensitive and accurate
- 360° Pan and 90° Tilt range (auto-flip) without blind area
- Stepless speed change, auto zoom/speed matching
- Near / far IR Light auto matches camera zoom in/out

All-weather Outdoor Design

- High die-cast alloy aluminum construction
- High Precision Mould with high heat conductivity
- Fully enclosed isolation design for heat sink
- Nanometer Dustproof, waterproof and fog-proof lens
- IP66 Waterproof
- 3000V lightning and surge current protection

Function Instructions

- Focus / PTZ Speed Auto Match

The pan/tilt rotation speed could be automatically adjusted according to the focus in/out, which makes it much more practical for manual target tracking. (Only for the auto tracking IR speed dome)

- Power Up Action

This function enables to resume the last action executed before power down. Most of actions such as Preset, Pattern, Swing and Group are available for this function but jog actions are not available to resume.

- Auto Flip

When the camera tilts downward and goes just beyond the vertical position, the camera will rotate 180 degrees.

- Preset Position Set up and Call Up

In the Preset function the dome stores the current pan/tilt angle, zoom and other position parameters in its memory. When necessary the dome recalls these parameters and adjusts the camera to a particular position. The user can store, recall and clear the presets easily and promptly by using the keyboard controller. The dome can store up to 220 presets.

- Auto Scan

Users can set up the left and right boundaries by control keyboard. Then speed dome can scan between this boundary. It supports up to 8 groups of scanning paths.

- Cruising Track

The preset position can be programmed to be recalled in a set of sequences. This sequence can be set to let the camera scan from one position to the next in a cycle at a set speed. This feature is called the “auto cruise”. The cruise sequence and dwell time of each preset can be set. It supports up to 8 cruising tracks, each cruising track with 32 presets.

- Pattern Tour

Dome can memorize 600s running path or 500 programmable instructions. When start pattern tour, speed dome will move automatically according recorded action path. It supports 4 groups of pattern tours.

- Guard Location

The dome will automatically return to preset position if there is no operation in a period of vacant time.

- Default Action

When you start up the dome camera or do not send commands over a long time, the dome camera will return to its default functions which include the home place, auto pan, auto cruise and pattern.

- Dome Address Setup

The dome supports up to 256 addresses and the dome will only response to the instructions given to its own address. Please check the dip switch on the bottom of the dome for address setup.

- Manual Object Tracking

The use can move the joystick up, down, left or right to track the appearing object in the screen and use the joystick to zoom in and out with auto focus.

- Privacy Mask Protection

Set black mask areas to protect the privacy zones. The black privacy locations can be set, and support up to 8 mask zones.

- Timing Running Function

Users can set speed dome operation task at total 8 timing areas during 7 days.

- Coordinates and Directions Display

User can define the dome’s direction of due north, which will help to show up the exact moving directions on screen. And zone title is supported to display when the dome moves to the specified zone.

- Auto Tracking (only for 15-CD55TWA1)

The dome will automatically fix and track the moving object according to the user's setup via OSD.

- Motion Detection

The dome will detect the changes in the defined video zone and trigger alarm.

It supports to 8 video Locations, each with 4 detection zones.

- PTZ and Lens Control

- ① Zoom Control

Users can control zoom by keyboard to get near or far images.

- ② Focus Control

The default setting is auto focus. The camera will auto focus based on the center of the video display to get the clear image. In some special occasions, the user could do the manual focus to get the desired image effect.

- ③ Auto Iris Control

Auto Iris is aiming to detect the environmental lights condition and adjust the iris to get the stabilized brightness of the image.

- ④ Auto Back Light Compensation

In the highly bright background, auto back light compensation is aiming to compensate the brightness of the dark object and adjust the background brightness to get a clear image.

- ⑤ Auto/Manual White Balance

Auto/Manual WB adjust depending on the environment light changes.

- ⑥ Day and Night Switch (Only for Day/Night Camera)

Speed dome camera can auto switch according to the environmental illumination changes.

- ⑦ OSD Setup (Only for camera with menu)

Call upon preset No.95 to enter into OSD menu setup interface. Press "Focus" to choose menu items and press "Iris" to set menu contents.

The information such as Camera ID, temperature, Pan/Tilt Angle, Alarm Input and Preset can be displayed on screen.

- I/O Functions (for Advance Type)

To reject external electric noise and shock perfectly, alarm sensor Input is decoupled with photo coupler.

Using the dry contact for alarm input and output.

If an external sensor is activated, camera can be set to move to the corresponding Preset position.

- Reserved Presets for Special Purpose

Most camera characteristics can be set up easily and directly with reserved preset, not entering into OSD menu. For more information, refer to "Reserved Preset" in this manual.

Product & Accessories



15-CD55TWA

15-CD55TWA

15-CD52WI

● Accessories:



User's Manual



Anti-drop Rope



Caution: DC12V/4A power for 15-CD55TWA
DC12V/5A power for 15-CD55TWA & 15-CD52WI

■ ■ Installation Guide ■ ■

■ ■ Preparations

- **Basic Requirements**

All the electric work must be finished under the latest electric & fire prevention law and rules (and any related law and rules). Please check according to the packing list if every accessory is included. And also make sure the installation is operated as required. Please contact us for any help during the installation.

- **Installation Space and Density Checkup**

Please make sure the space is big enough to install our dome. And also ensure the density of the ceilings or walls to hold total weight of the dome and its accessories.

- **Cables Preparation**

Please choose the proper cable according to the transmission distance. The min requirement of coaxial BNC cable is listed as follows for reference:

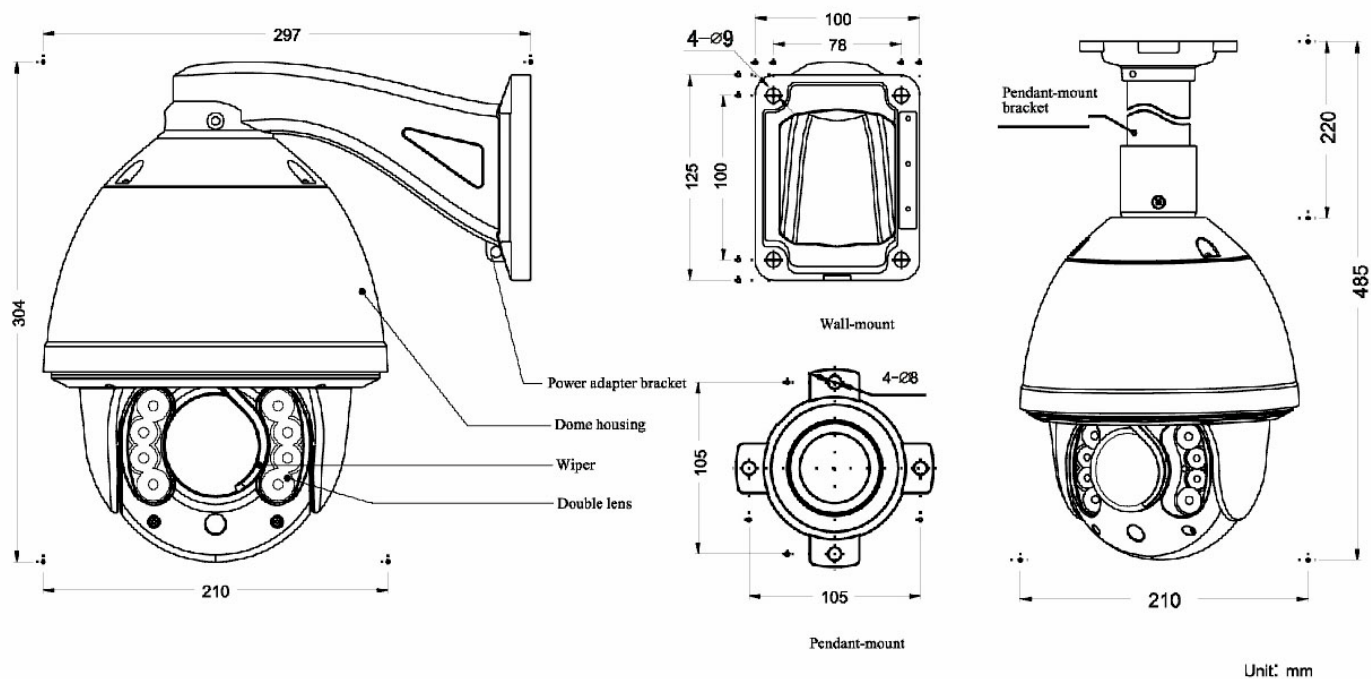
Models	Max Distance (Feet\Meter)
RG59/U	750ft(229m)
RG61/U	1,000ft(305m)
RG11/U	1,500ft(457m)

- **Setup Dip Switch for Dome Address**

*Please turn to Dome Address Setup for details

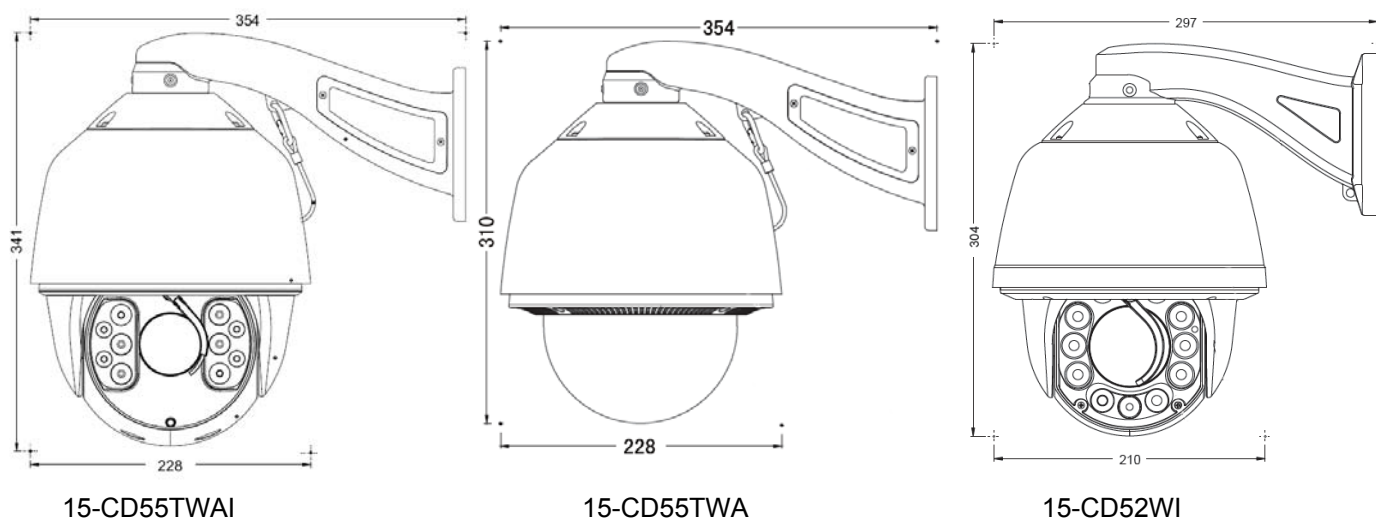
Installation Method

The IR speed dome could be installed in wall-mount and pendant-mount

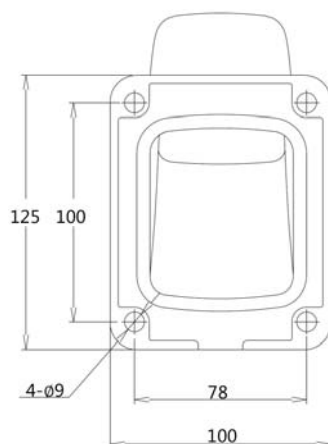


Installation Dimensions

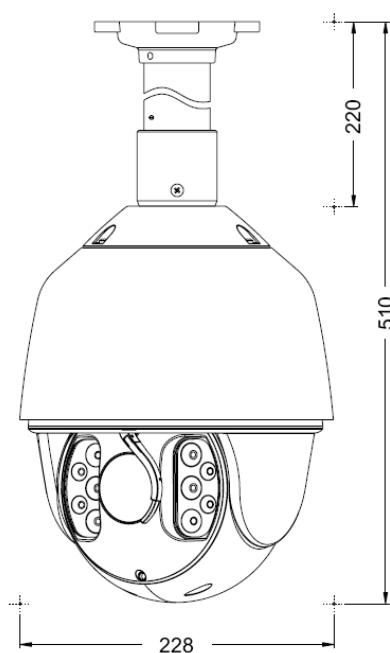
Wall Mount



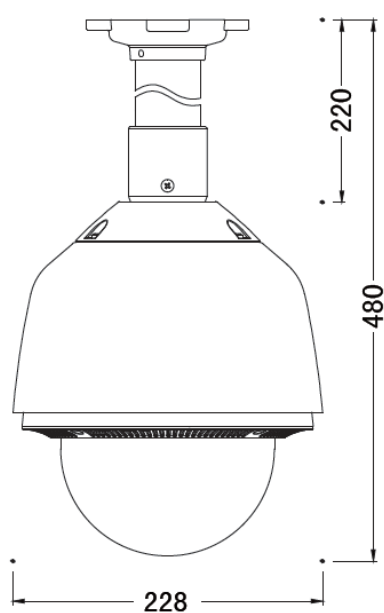
Drill Drawing:



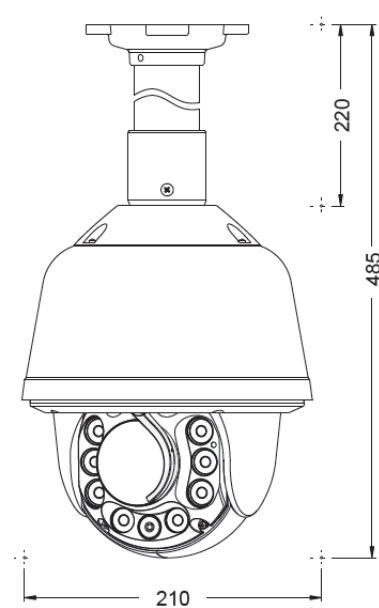
Pendant Mount



15-CD55TWA I

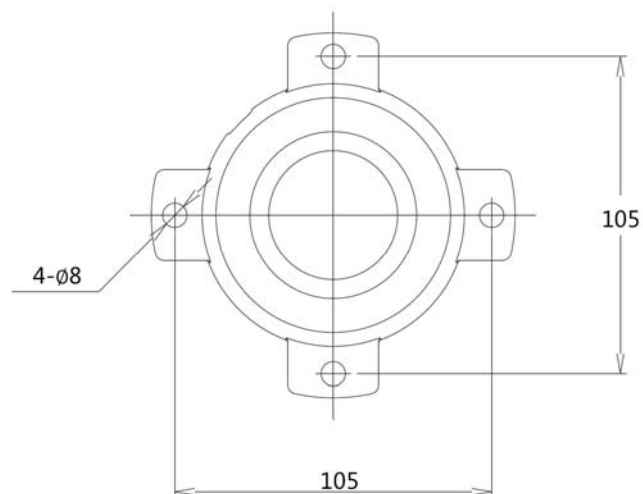


15-CD55TWA



15-CD52WI

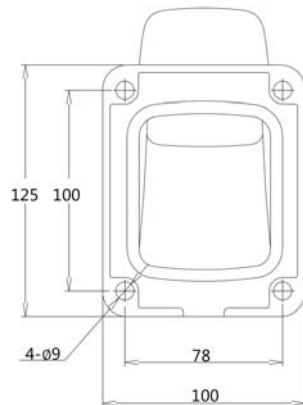
Drill Drawing:



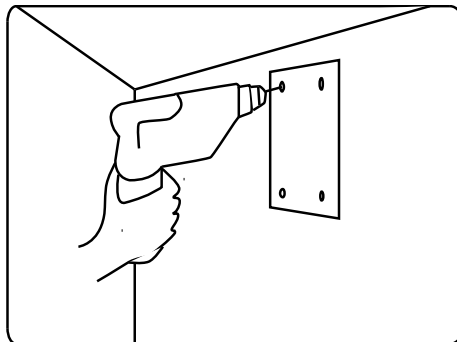
***Notice:** The wall and ceiling must be thick enough to install the expansion and can bear 4 times the weight of the dome camera itself.

- **Wall-mount Installation Procedures:**

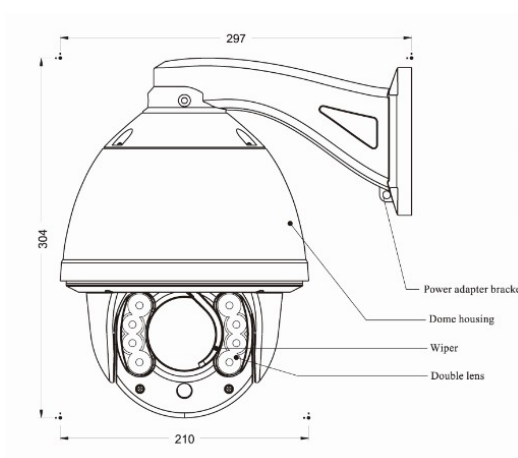
- 1). Take out the bracket from the package (as shown), mark the installation hole positions on the wall referencing to the bottom of bracket.



- 2). Drill the hole and install 4 pieces of M8 expansion bolt into the hole.



- 3) Take out the IR speed dome and put the cables through the bracket. Use M5 screws to fix the bracket and dome body.

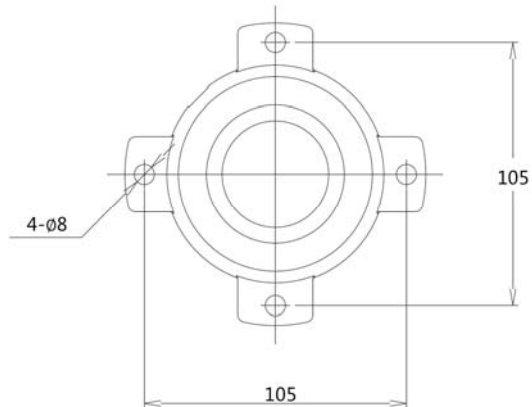


- 4) Use 4 pieces of M8 screw nuts with washer to fix the bracket on the wall.

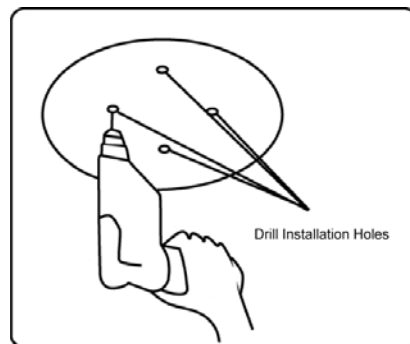
- **Pendant-mount Installation Procedures:**

***Notice:** Pendant-bracket is not designed for outdoor installation. If specially required, please do make sure the waterproof installation of the dome.

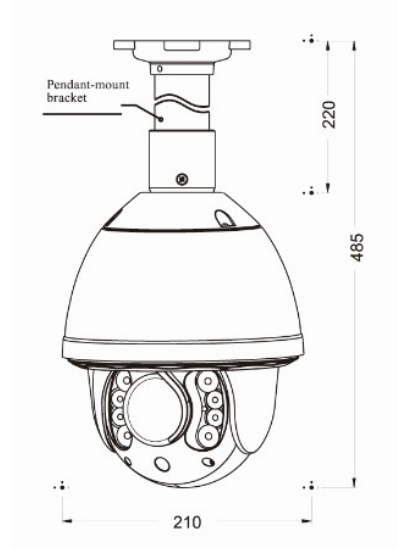
- 1) Take out the bracket from the package (as shown), mark the installation hole positions on the ceiling referencing to the bottom of bracket.



- 2) Drill the hole and install 4 pieces of M8 expansion bolt into the hole.



- 3) Take out the IR speed dome and put the cables through the sockets on the bottom of the pendant bracket. Use M5 screws to fix the bracket and dome body.



- 4) Use screw nuts with washer to fix the bracket on the wall.

Dome Setting

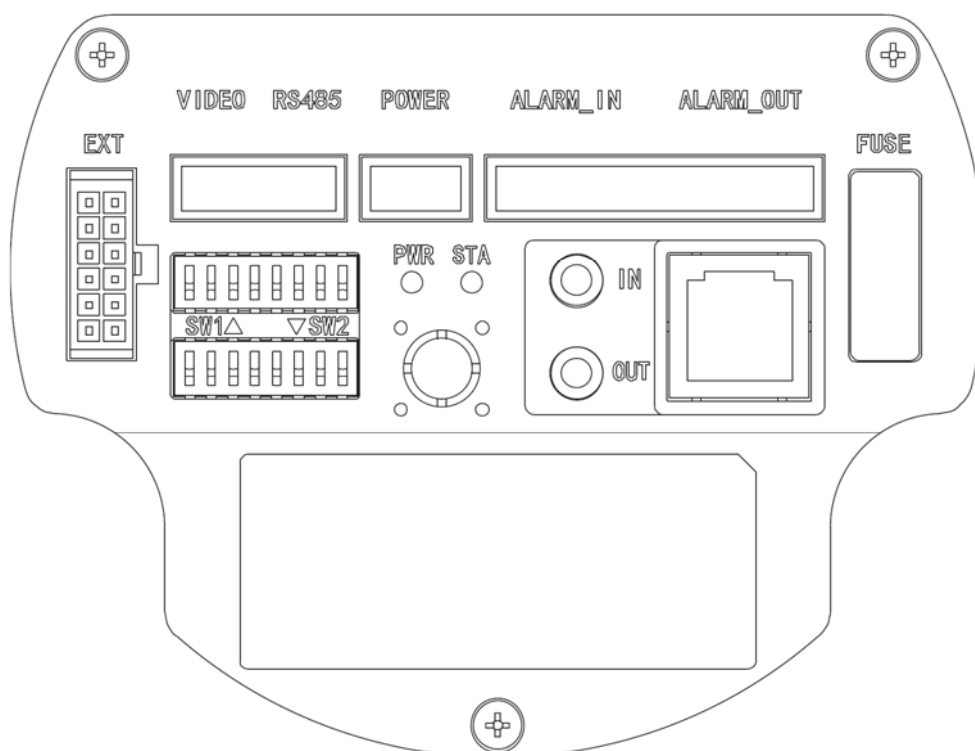
Before the dome is installed, please finish the setup of the communication protocol, baud rate and dome address. Set the DIP switch inside the dome body. The relative DIP switch site and connecting wires are diagramed below for reference.

DIP Switch Setup

15-CD52WI : The dip switches are under the cover as following picture.



15-CD55TWA&15-CD55TWA1: The dip switches are under the flange as following picture.



SW1 — Dip switch for the dome address

SW2 — Dip switch for the dome protocol

- **Protocol Setup (SW2)**

Our IR speed dome supports two protocols including Pelco P and Pelco D.

All of them supports baud rate of 9600bps 、4800bps 、2400bps.

Set the No.1~4 dip switch for the protocol configuration.

Protocol	SW2-1	SW2-2	SW2-3	SW2-4
PELCO-P	ON	OFF	OFF	OFF
PELCO-D	OFF	ON	OFF	OFF
Reserved

- **Baud Rate Setup (SW2)**

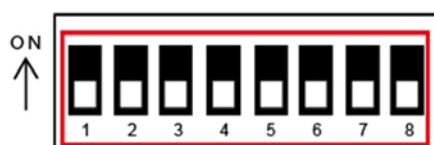
Set the No.5~6 dip switch for the baud rate configuration.

Baud Rate	SW2-5	SW2-6
9600	OFF	OFF
4800	ON	OFF
2400	OFF	ON
Reserved

1. If you want to control using DVR or P/T controller, their protocol must be identical to camera. Otherwise, you can not control the camera.
2. If you changed camera protocol by changing DIP S/W, the change will be effective after you reboot the camera.

- **Dome Address Setup (SW1)**

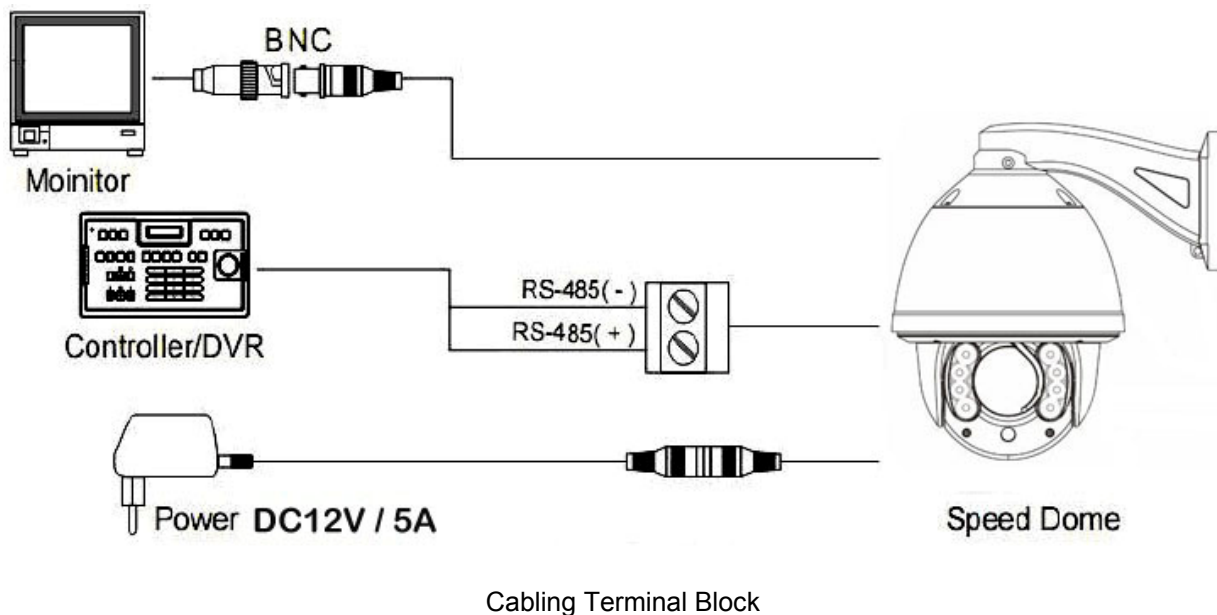
1. ID number of camera is set using binary number. The example is shown bellow.



PIN	1	2	3	4	5	6	7	8
ID Value	1	2	4	8	16	32	64	128
Ex) ID=5	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
Ex) ID=10	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF

2. The range of ID is 1~255. Factory default of Camera ID is 1.
3. If you want to control a certain camera, you must match the camera ID with Cam ID setting of DVR or Controller.
4. Speed dome can change the ID address and baud rate via OSD menu.

Cabling



Power Connection

Please, check the voltage and current capacity of rated power carefully.

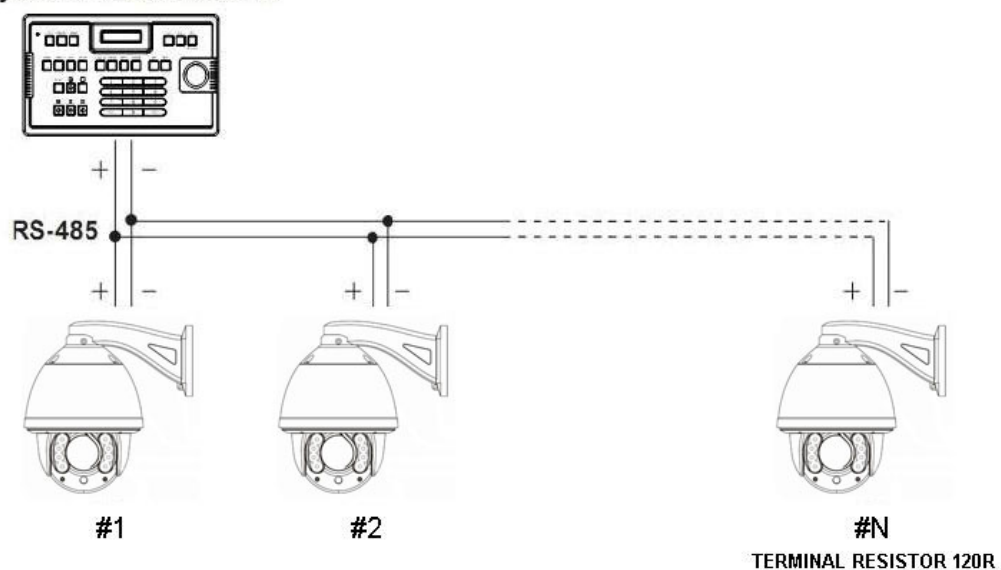
Rated power is indicated in the back of main unit.

Rated Power	Input Voltage Range	Current Consumption	Model
DC 12V	DC 11V~13 V	5A	15-CD52WI&15-CD55TWA
DC 12V	DC 11V~13 V	4A	15-CD55TWA

RS-485 Communication

- For PTZ control, connect this line to keyboard and DVR. To control multiple cameras at the same time, RS-485 communication lines of them is connected in parallel as shown below.
- Speed Dome OSD Menu, support the distal 120R resistance of the opening and closing.

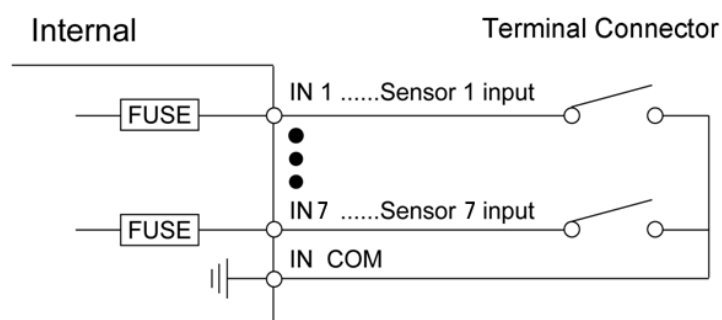
Keyboard Controller/DVR



- **Video Connection**

Connect with BNC coaxial cable.

- **Alarm input (15-CD55TWA 、 15-CD55TWAI)**



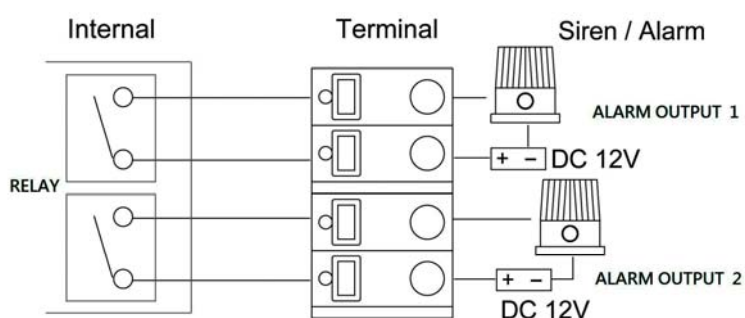
Signal	Description
IN COM	Common point for alarm
IN1-,IN2-,IN3-, IN4-,IN5,IN6,IN7	Alarm input signal

Speed dome can detect the status of alarm input (NO or NC) automatically.

Normal Open and Normal Close define as below:

⊙ Normal Open	No contact between alarm input and common point
⊙ Normal Close	Keeping contact between alarm input and common point

- **Alarm output (15-CD55TWA 、 15-CD55TWAI)**



Signal	Description
Alarm output 1	Alarm output port 1
Alarm output 2	Alarm output port 2

Speed dome can detect the status of alarm input automatically, when any alarm was triggered then alarm output must be action.

Check points before operation

- Before power is applied, please check the cables carefully.
- The camera ID of the controller must be identical to that of the target camera. The camera ID can be checked by reading DIP switch of the camera.
- If your controller supports multi-protocols, the protocol must be changed to match to that of the camera.
- If you changed camera protocol by changing DIP switch, the change will be effective after you reboot the camera.
- Since the operation method can be different for each controller available, refer to the manual for your controller if camera can not be controlled properly. The operation of this manual is based on the standard Pelco® Controller.

Preset and pattern Function Pre-Check

- Check how to operate preset and pattern function with controller or DVR in advance to operate camera function fully when using controller or DVR.
- Refer to the following table when using standard Pelco® D protocol controller.

<Go Preset>	Press [Call] input [Preset number] and press [Enter]
<Set Preset>	Press [Preset] input [Preset number] and press [Enter]
<Run Pattern>	Press [Call] input [Pattern number] and press [Enter]
<Set Pattern>	Please refer to the pattern setup, turn to "Pattern Setup"

- If controller or DVR has no pattern button or function, use shortcut keys with preset numbers. For more information, refer to "Reserved Preset" in this manual.

Starting OSD Menu

- **Function** Using the OSD menu, Preset, Pattern, Swing, Group Pan, Tilt and Alarm Input function can be configured for each application.
- **Enter Menu** Press <Call> + Preset Number [95] +<Enter> (or call preset No.1 two times continuously within two seconds)
- **Move/ Select Item** Control the joystick to move the cursor around the menu (Move the joystick up and down to select the item)
- **Enter Item** Press "Iris Open" to enter the menu for selections (Press "Iris Open" to confirm the selection)
- **Quit from Menu** Press "Iris Close" to cancel the selection

***Note:** If your controller does not have a joystick, use the up or down key.

Reserved Preset

- Description Some Preset numbers are reserved to special functions.

1	<Call> [95]<Enter>	Enters into OSD menu	
2	<Call> [99]<Enter>	Run Pan Scan	Default as scan 1
3	<Call> [98]<Enter>	Run Cruise(SEQ)	Default as Cruise(SEQ) 1
4	<Call> [97]<Enter>	Run Pattern	Default as Pattern 1
5	<Call> [96]<Enter>	Stop / End of set	
6	<Set> [93]<Enter>	Set the Right boundary	Default as scan 1
7	<Set> [92]<Enter>	Set the Left boundary	pp: speed value 1~30
8	<Set> [87]<Enter> + <Call>[pp]<Enter>	Stop / End of setting	
9	<Set> [84]<Enter> + <Call>[pp]<Enter> +	Set the preset of cruise	pp: Preset, the max. 32 presets
10	<Call>[96]<Enter>	End the preset setting	qq: dwell time: 1—60S,
11	<Set> [83]<Enter> + <Call>[qq]<Enter>	Set dwell time of cruising	Default as cruise 1
12	<Set> [86]<Enter>	Start the pattern setting	Default as pattern 1
13	<Call>[96]<Enter>	End the pattern setting	
14	<Call>[80]<Enter> + <Call>[pp]<Enter> + <Call>[99]<Enter>	Start the qq scanning	pp: Scanning 1-8 qq: speed value: 1-30
15	<Call>[80]<Enter> + <Call>[pp]<Enter> + <Set>[93]<Enter>	Set right boundary of the pp scanning	
16	<Call>[80]<Enter> + <Call>[pp]<Enter> + <Set>[87]<Enter>+ <Call>[qq]<Enter>	Set the speed value of scanning	
17	<Call>[80]<Enter> + <Call>[pp]<Enter> + <Call>[98]<Enter>	Start the pp cruising	
18	<Call>[80]<Enter> + <Call>[pp]<Enter> + <Set>[84]<Enter>+ <Call>[qq]<Enter>	Set the preset of the pp cruising.	pp: Cruise 1-8 qq: Presets, the max.32 presets
19	<Call>[96]<Enter>	End the pp cruise setting	n: Dwell time 1-60s
20	<Call>[80]<Enter> + <Call>[pp]<Enter> + <Set>[83]<Enter>+ <Call>[n]<Enter>	Set dwell time of cruising	

21	<Call>[80]<Enter> + <Call>[pp]<Enter> + <Call>[97]<Enter>	Start the pp pattern.	pp: Pattern 1-4
22	<Call>[80]<Enter> + <Call>[pp]<Enter> + <Set>[86]<Enter>	Start setting of the pp pattern.	
23	<Call> [96]<Enter>	End setting of the pp pattern.	
24	<Call> [94]<Enter>	Reset	
25	<Call> [82]<Enter>	Load Default	
26	<Call> [94]<Enter>	Reset	
27	<Call> [71]<Enter>	Start Wiper	

● Main Functions Fast Call Up

Our IR Speed dome supports 220 preset positions. You can activate some special functions by calling upon code number 65-99.

● System Self-Testing

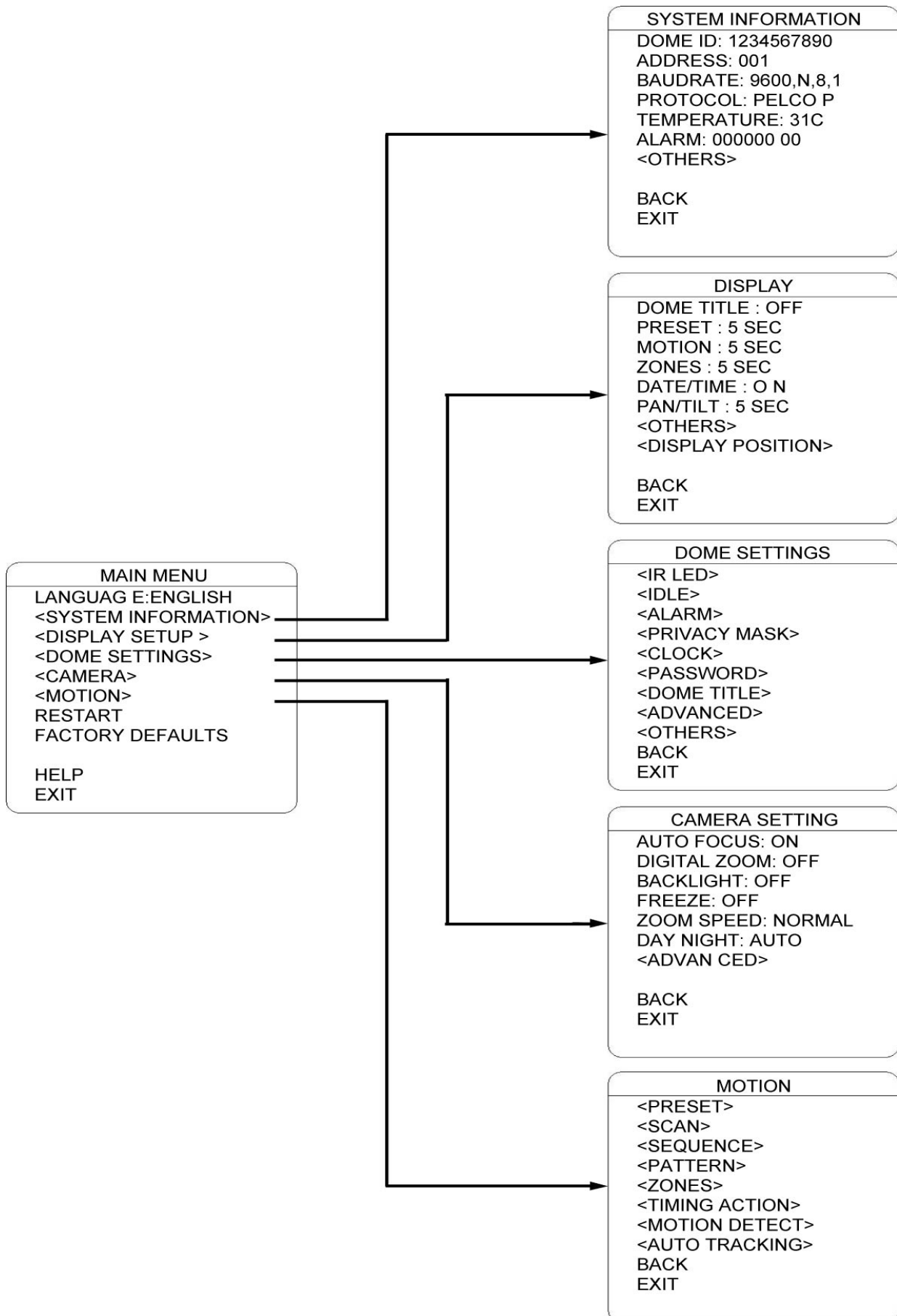
The dome will do self-testing after power up, and system status will show “Normal” if system is running normally. If error happens, testing result will be shown in “○” or “X”. “○” means normal and “X” means error. Please check the according meaning as follows:

Serial NO.	1	2	3	4	5	6
Meaning	Dip Switch	Temperature Sensor	Storage	Pan	Tit	Camera

|| General Rules of Key Operation for Menu

- The menu items surrounded with<> always has its sub menu.
- For all menu level, to go into sub menu, press OPEN key or use joystick in the right.
- To go to up-one-level menu, press CLOSE key or use joystick in the left.
- To move from items to item in the menu, use joystick in the Up/Down.
- To change a value of an item, use Up/Down of the joystick in the controller.
- Press OPEN key or use joystick in the right to save values and Press CLOSE key or use joystick in the left to cancel Values.

|| OSD MENU FUNCTIONS



MAIN MENU



- Language Language selection
- System Information The user can check the dome system information as required. The system information includes: Dome ID, dome address, baud rate, protocol, temperature, voltage, alarm info, dome title, version, date, time, and temperature scale. Display Setup Enable/Disable of OSD display on Main Screen
- Display Setup splay setup allows the user to define the way to display the dome titles on the monitor.
- Dome Setup Set all of the speed dome functions.
- Camera Set all of the camera functions.
- Motion Set the action of speed dome including "Preset" 、"Scan" 、"Cruise"...etc.
- Prestart Reset
- Factory Defaults Load factory default.
- Help Description of the operating and functions.

LANGUAGE



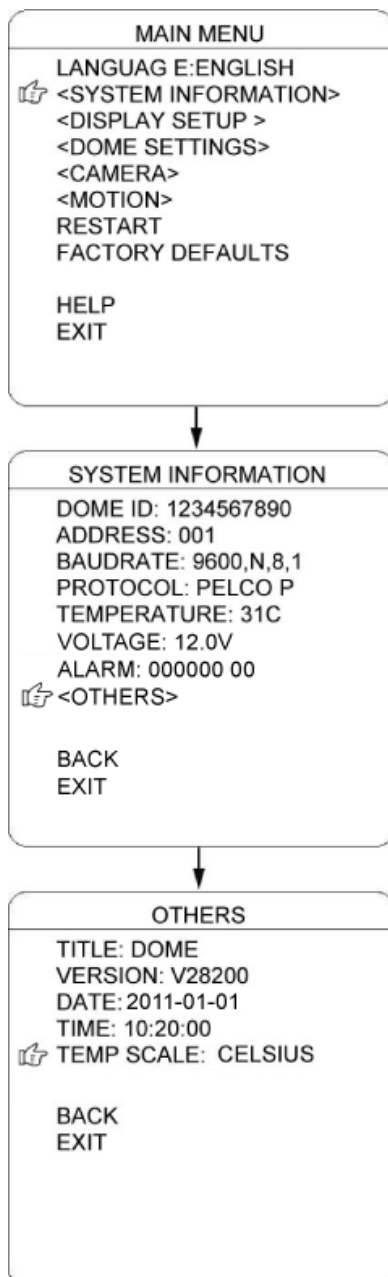
The language for the on-screen menus is Selectable.

To change the display language:

Press Iris Open to enter selection.

All on-screen menus are changed to the selected language.

SYSTEM INFORMATION



The user can check the dome system information as required.

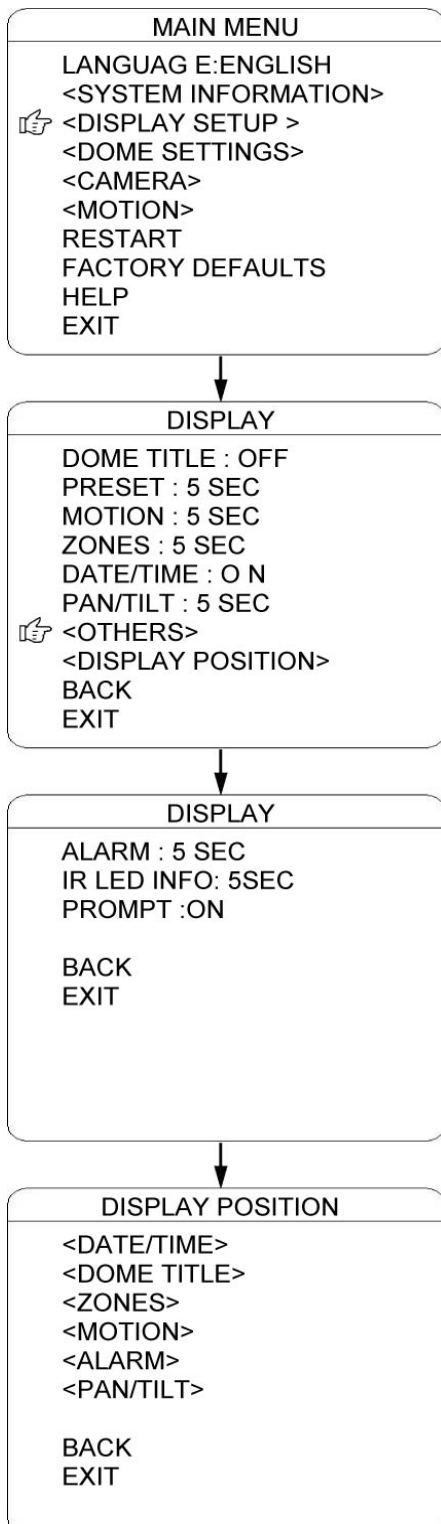
The system information includes: Dome ID, dome address, baud rate, protocol, temperature, voltage, alarm info, dome title, version, date, time, and temperature scale.

Use the following steps to display the

System Information screens:

1. Use the joystick to position the cursor along the SYSTEM INFORMATION.
2. Press Iris Open. The SYSTEM INFORMATION screen opens.
3. Mover the joystick up and town to select the item.
4. Press Iris Open to enter the setup of each item.

II DISPLAY SETUP



Display setup allows the user to define the way to display the dome titles on the monitor.

The displayed titles are listed as follows:

- DOME TITLE Indicate dome
- PRESET Indicate the dwell time for preset title
- MOTION Indicate the dwell time for auto function titles (auto scan/auto cruise/pattern tour)
- ZONES Indicate the dwell time for zone titles
- DATE/TIME Display the current date and time
- PAN/TILT Time to display PTZ info and zoom info
- ALARM Time to display alarm in/out info
- IR LED INFO Time to display IR LED info
- PROMPT Display prompt info

Two options for the Dome Title and Date/Time: OFF and ON

Other setup selections include:

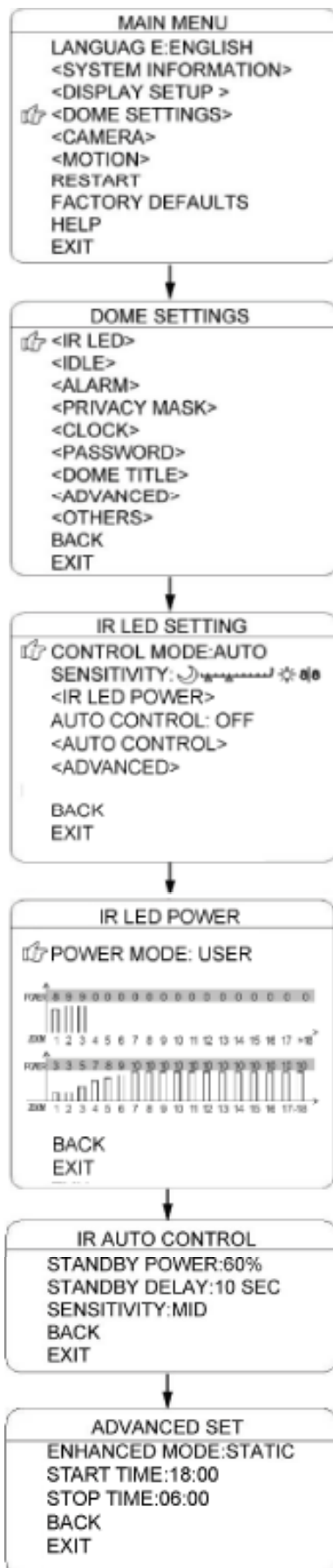
- OFF Title will not be displayed when activated.
- ON Title will be continuously displayed when activated.
- 2 SEC Title will be displayed for 2 seconds after activation.
- 5 SEC Title will be displayed for 5 seconds after activation.
- 10 SEC Title will be displayed for 5 seconds after activation.

Move the cursor by joystick to the one you need to set, and press Iris Oper the item. Move the joystick select the status and press Iris Open to confirm

Titles can be placed anywhere on the monitor. This feature allows you to customize the window of your monitor screen. To set a title position:

1. Use the joystick to position the cursor in the DISPLAY POSITION
2. Press Iris Open.
3. Use the joystick to move the title up, down, left, or right.
4. Press Iris Open.
5. Repeat steps 1 through 4 to position other titles
6. Position the cursor at BACK or EXIT. Press Iris Open to save settings and exit menu.

IR LED



The user can open and close the IR LED manually and set up the IR LED work mode under this OSD menu. (Under normal operation mode, the user can press IRIS OPEN and IRIS CLOSE to adjust the IR LED power):

1. CONTROL MODE:

- AUTO: IR LED will be opened or closed automatically according to the light conditions.
- TIMING: LED will be adjusted according to Open and Close Time.
- OPEN: IR LED forcedly open
- CLOSE: IR LED forcedly close
- CAMERA: IR LED status (Open/Close) will be synchronized with Camera day and night switching

2. SENSITIVITY:

Here the user can manually set the sensitivity from 1-5. The smaller the number is, the lower light of the environment will be when the IR LED on.

3. IR LED POWER:

Here the user can choose the power mode covering: NORMAL, MATCH and USER.

- NORMAL: Near IR LED will be turned on when wide angle. and Far IR LED will be turned on when small angle.
- MATCH: The Near and Far IR LED will be turned on and off automatically to match the zoom in and out.
- USER: The user can manually adjust the Near and Far IR LED.

4. AUTO CONTROL:

When it is on, the IR LED will turn its power consumption to the standby status which will effectively extend the service life of IR LEDs. And under this mode, when objects appear in the screen, the IR LED will turn its power consumption back to the normal status.

5. STANDBY POWER:

When the AUTO CONTROL is on, the user can set up the standby power here.

6. STANDBY DELAY:

Set up how long if there is not moving object, the IR LED will turn into standby status.

7. SENSITIVITY:

When the AUTO CONTROL is on, the user can set up the sensitivity to detect the moving objects.

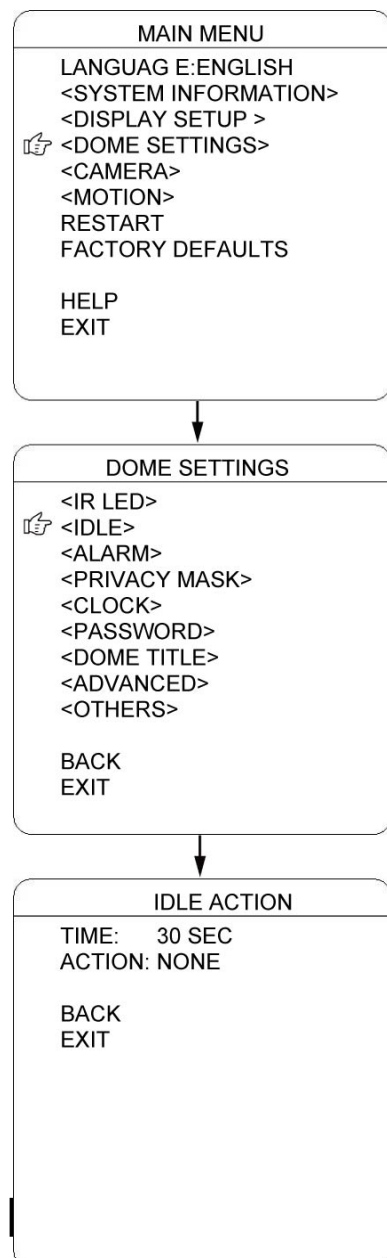
8. ENHANCED MODE:

Under normal status, press IRIS OPEN to enhance the IR LED power, when it is turned to maximum, press IRIS OPEN continuously for 2 seconds to enter the enhanced mode. And the whole brightness of the image will be improved. Move the cursor to EHNANCED MODE and press IRIS to enter and select between "STATIC" and "DYNAMIC"

9. START/STOP TIME:

Set up time for IR LED to open and close under "TIMING" of control mode.

II IDLE



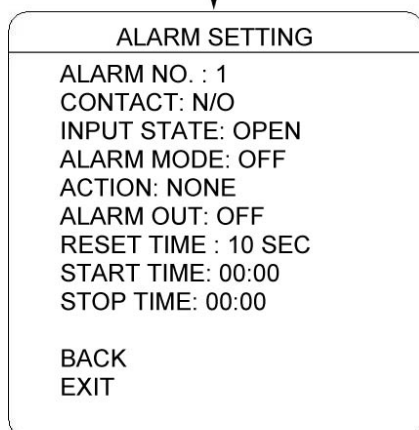
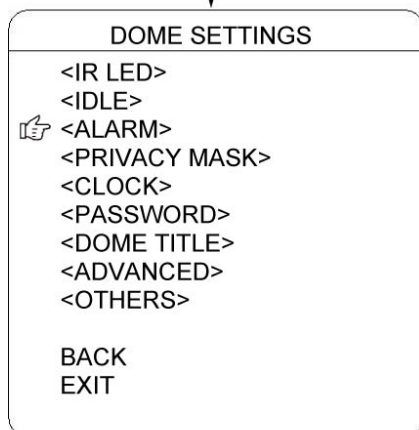
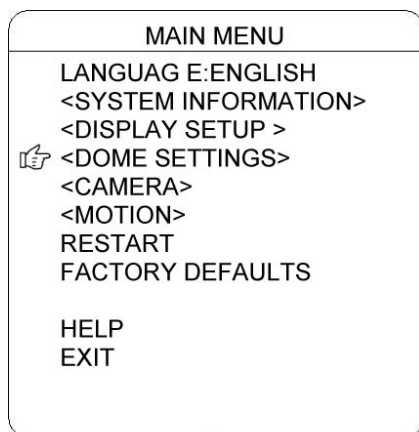
IDLE setting means if there is no command for the dome for a period of time, the dome will run the actions as defined.

1. TIME:

Move the cursor to "TIME" and press IRIS OPEN to enter, and move the joystick up and dome to select among 30 sec, 1 min, 5 min, 10 min and 30 min. And press IRIS OPEN to confirm.

2. ACTION:

Move the cursor to "ACTION" and press IRIS OPEN to enter. Move the joystick to select the actions including "NONE, PRESET, SCAN, SEQUENCE, PATTERN. Press IRIS OPEN to confirm.



The dome system has 7 alarm inputs and 2 alarm output. (optional function). When an alarm is received, an input signal to the dome triggers the user defined action (such as presets, patterns, etc.), and at meantime the alarm output signals is activated.

1. ALARM NO.:

Move the cursor to the ALARM NO. Press IRIS OPEN to enter and move the joystick up and down to select the alarm input no. (Channel 1 and Channel 2)

2. INPUT STATE:

Set the alarm contact status. There are two input states, OPEN and CLOSE.

- OPEN normally open
- CLOSE normally close

3. ALARM MODE

- OFF Alarm function is deactivated.
- ON Alarm function is activated.
- AUTO AUTO Alarm function will be activated and deactivated between START TIME and STOP TIME.

4. ACTION: Set the alarm action:

- NONE (default) No action.
- PRESET Dome goes to preset. (Default as Preset 1)
- SCAN Dome starts auto scan (Default as Auto Scan 1)
- SEQ Dome runs auto cruise (Default as Auto Cruise 1)
- PATTERN Dome runs pattern (Default as Pattern 1)

5. ALARM OUT: Set the auxiliary to activate:

- OFF Not alarm output will be activated.
- OUT1 An alarm action will close AUX 1 output..
- OUT2 An alarm action will activate AUX2 output.

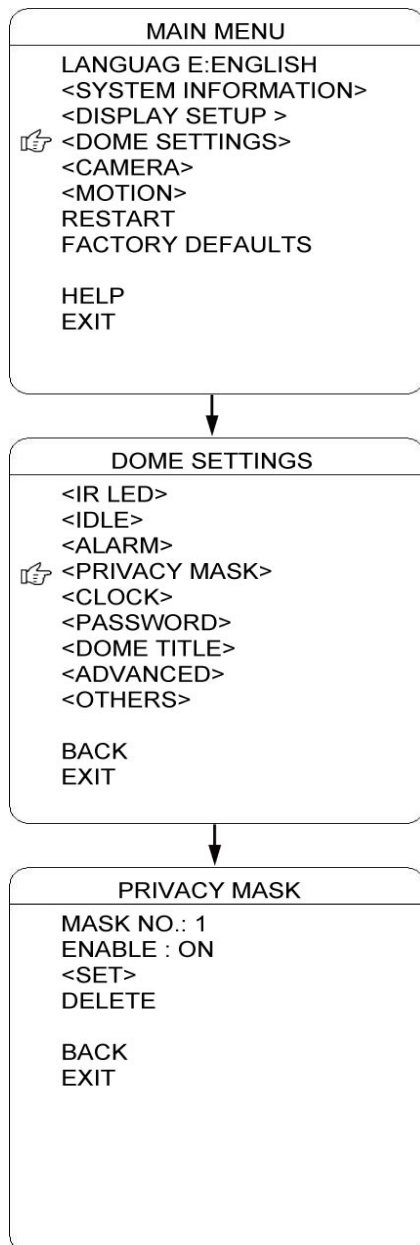
6. RESET TIME:

Set up time for the alarm output (such as an alarm buzzed) when is triggered by the detector. .

7. START /STOP TIME:

Set up the time to start alarm and stop alarm ONLY under the AUTO mode under ALARM MODE

PRIVACY MASK



Privacy mask allows the user to mask the privacy areas with black frame. The user can set up 8 privacy masks at most.

1. MASK NO.:

Move the cursor here and press IRIS OPEN to enter the setup of Mask Number of the privacy zone,

2. ENABLE:

To enable or disable this privacy mask function.

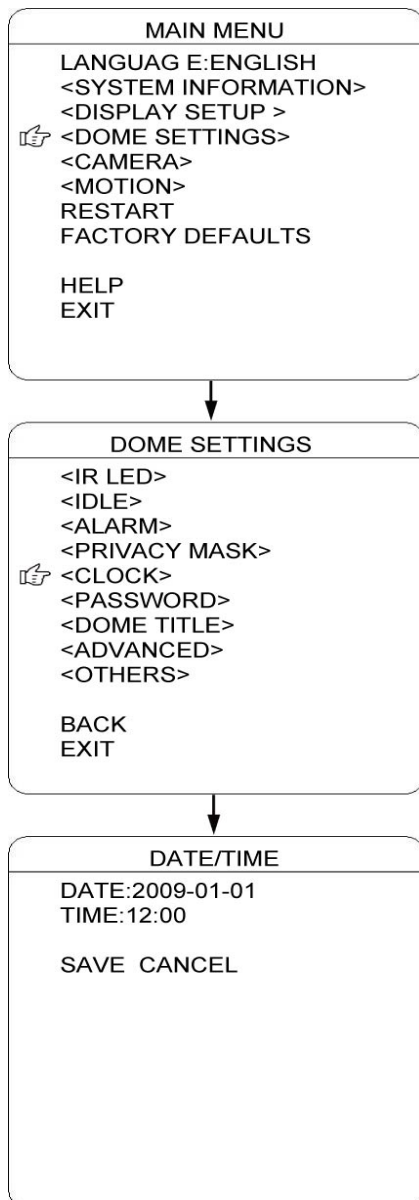
3. SET:

Move the cursor here and press IRIS OPEN to enter the mode of setting the privacy mask. Move the joystick (Left/Right/Up/Down) on the screen to set up the privacy zone and press IRIS OPEN to confirm.

4. DELETE:

Move the cursor here and press IRIS OPEN to delete the current No. of privacy mask zone.

|| CLOCK



The dome can display the data and time. And the user could enter this CLOCK menu to set up the DATE and TIME.

1. DATE:

Move the cursor here and press IRIS OPEN to enter.
Move the joystick left and right to choose the date position and move it up and dome to adjust the figures.
Press IRIS OPEN to confirm.

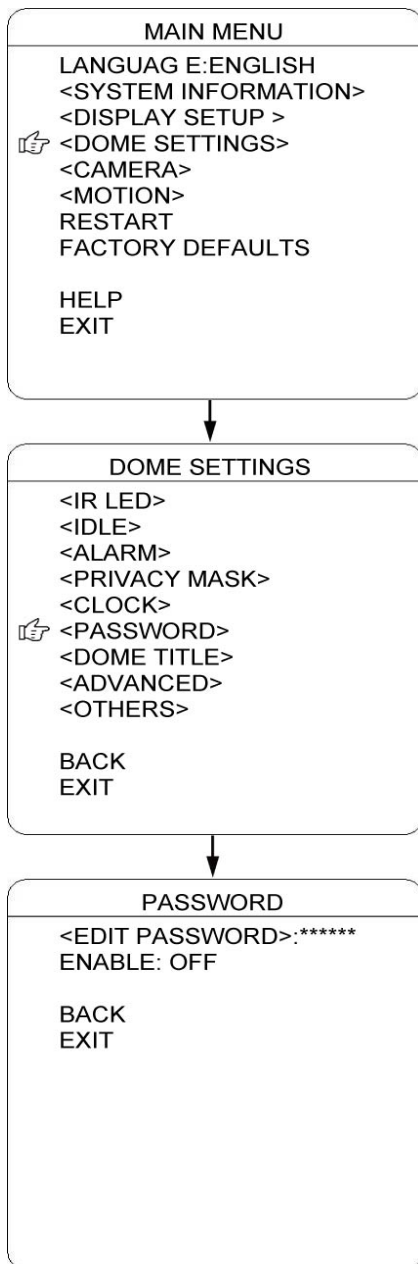
2. TIME:

Move the cursor here and press IRIS OPEN to enter.
Move the joystick left and right to choose the time position and move it up and dome to adjust the figures.
Press IRIS OPEN to confirm.

3. SAVE/CANCEL:

Move the cursor to "SAVE" and press IRIS OPEN to save the settings. Move the cursor to "DELETE" and press IRIS OPEN to cancel the settings.

|| PASSWORD



The dome features password protection function to prevent unauthorized changes to the dome settings. If the PASSWORD function is enabled, the operator can not access any dome setting without entering a valid password.

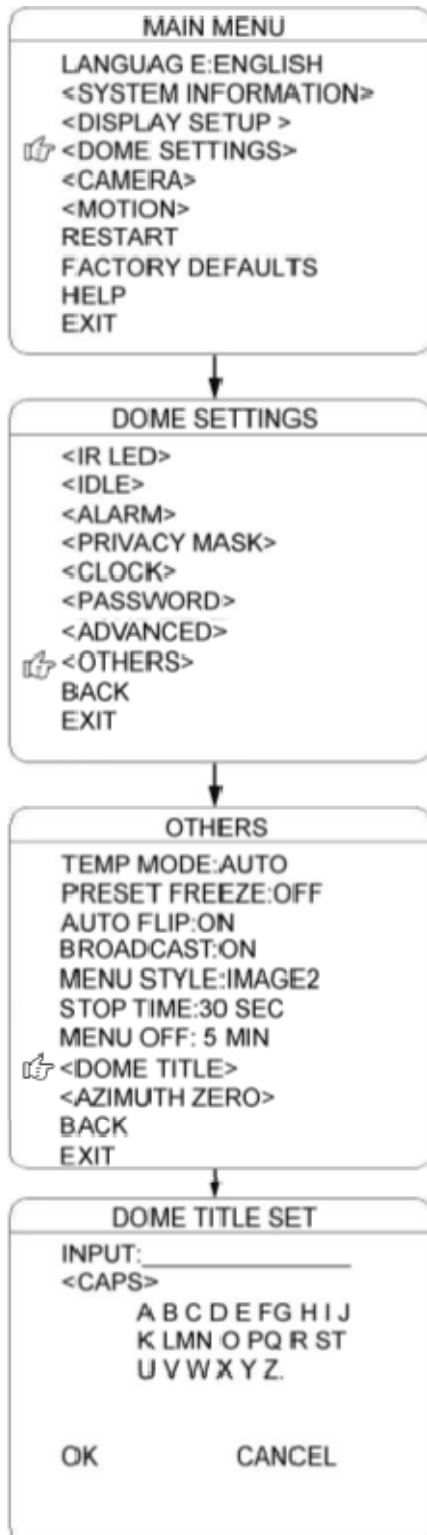
1. EDIT PASSWORD:

Move the cursor here and press IRIS OPEN to enter. Please enter the old password before setting up the new password. The initial password is "111111"

2. ENABLE:

Move the cursor here and press IRIS OPEN to enter. Move the joystick to select between "ON" and "OFF". The user needs to enter the password when opening the OSD under the status of "ENABLE: ON".

|| DOME TITLE

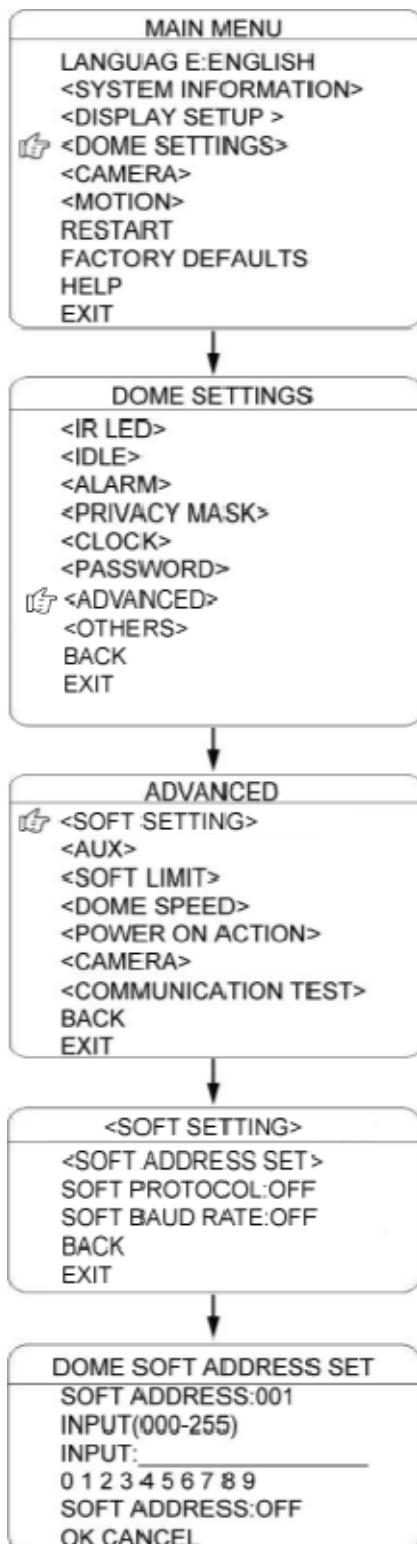


The user can set up the dome title to define each camera. Dome title support up to 12 characters

Move the cursor according the left steps and select INPUT. Press IRIS OPEN to enter.

1. Move the joystick left and right to position "←", and press IRIS OPEN to delete the character at "←". Press IRIS CLOSE to exit the edit mode.
2. Move the cursor to "<CAP>" and press IRIS OPEN to enter. Move the joystick up and down to select the input method (such as English Cap, English, Chinese, Figures, and Symbols)
3. Mover the cursor to next line of <CAP> and press IRIS OPEN to enter the mode of character input. The selected character will be shown in high brightness. Move the joystick up/down/left/right to choose the needed characters. Press IRIS OPEN to move the selected character to the INPUT position at "←".
4. After finishing the character inputs, move the cursor to "OK" and press IRIS OPEN to confirm.
5. Also user can move the cursor to "CANCEL" to cancel the character input settings.

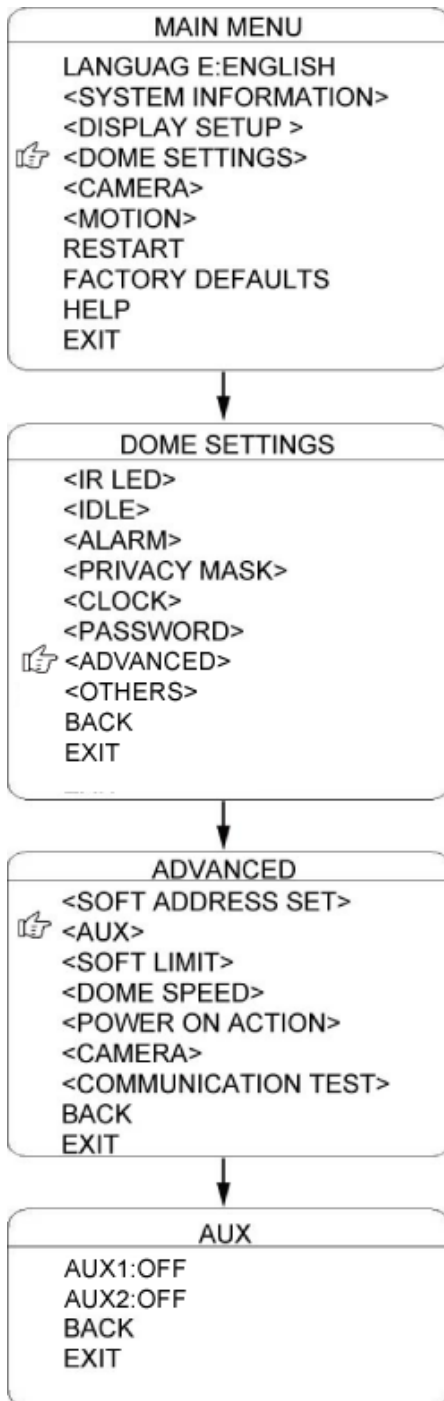
SOFT ADDRESS SET



The user can set up the SOFT ADDRESS, SOFT PROTOCOL and SOFT BAUD RATE under this menu here to activate the soft address function. And then the defined dome address by dip switch will be disabled.

1. Move the cursor to INPUT (under DOME ID) and press IRIS OPEN to enter the mode of setting dome ID, Move the joystick to position the cursor beside :0 1 2 3 4 5 6 7 8 9" and press IRIS OPEN to enter. And move the joystick again to select numbers of dome ID and press IRIS OPEN to confirm. The number selected will be input on the upper line.
2. Move the cursor to INPUT (the bottom menu) and press IRIS OPEN to enter the mode of setting soft address, Move the joystick to position the cursor beside :0 1 2 3 4 5 6 7 8 9" and press IRIS OPEN to enter. And move the joystick again to select numbers of dome soft address and press IRIS OPEN to confirm. The number selected will be input on the upper line.
3. Enable or disable the soft address function. Press IRIS CLOSE to exit last step. Move the cursor to "SOFTADDRESS:ON/OFF". Press iris open to enter. Move the joystick up or down to select ON of OFF. Press IRIS OPEN to confirm.
4. Press OK to save and confirm all the settings and press CANCEL to exit all the settings.

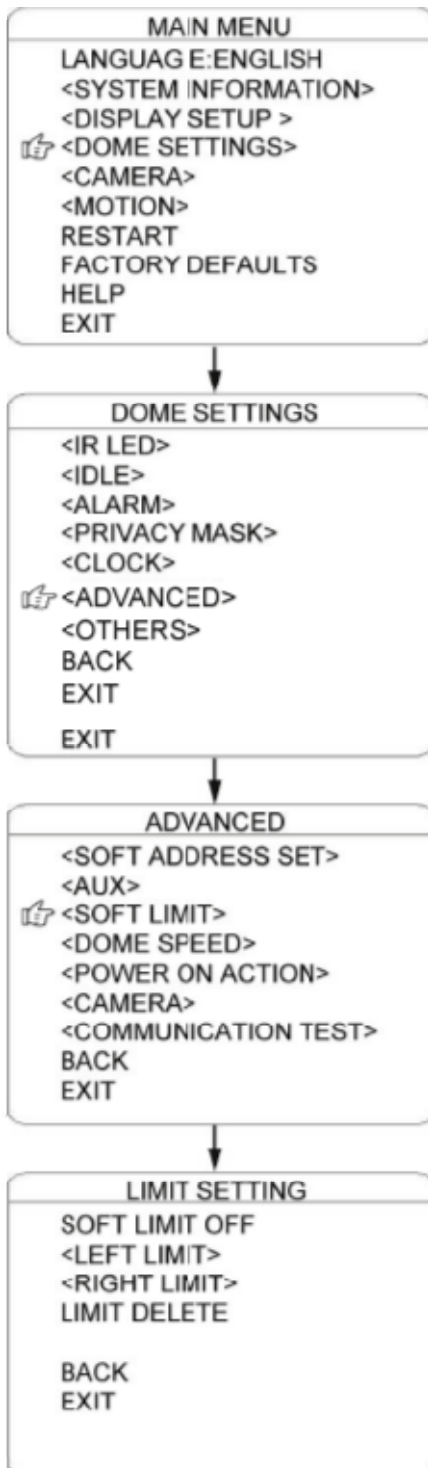
|| AUX



The user can set up the auxiliary output to trigger other devices from an alarm or a controller.

Move the cursor to AUX and press IRIS OPEN to enter to select “ON” or “OFF” to enable or disable this function.

SOFT LIMIT



The user can set up the soft limit to define the left and right boundaries for the pan movement.

SOFT LIMIT: Move the cursor here and press IRIS OPEN to enter. Move the joystick to select **"ON"** or **"OFF"** to enable or disable this function.

1. LEFT LIMIT:

Move the cursor here and press IRIS OPEN to enter. Now the user can move the joystick to control the PAN movement of the dome to a defined position for the left limit. Press IRIS OPEN to confirm.

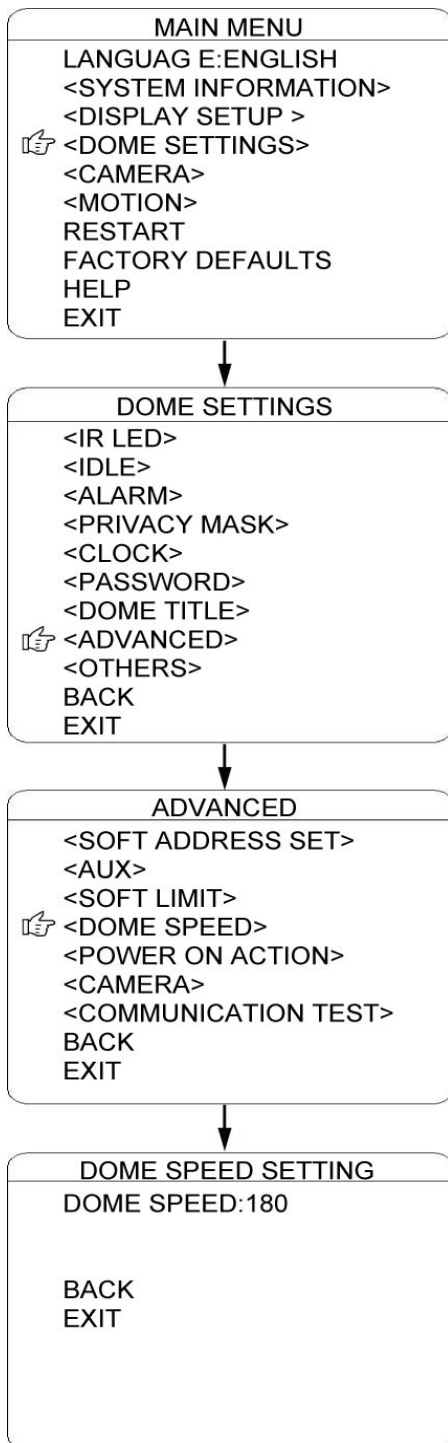
2. RIGHT LIMIT:

Move the cursor here and press IRIS OPEN to enter. Now the user can move the joystick to control the PAN movement of the dome to a defined position for the right limit. Press IRIS OPEN to confirm.

3. LIMIT DELETE:

Move the cursor here and press IRIS OPEN to delete all the settings.

|| DOME SPEED

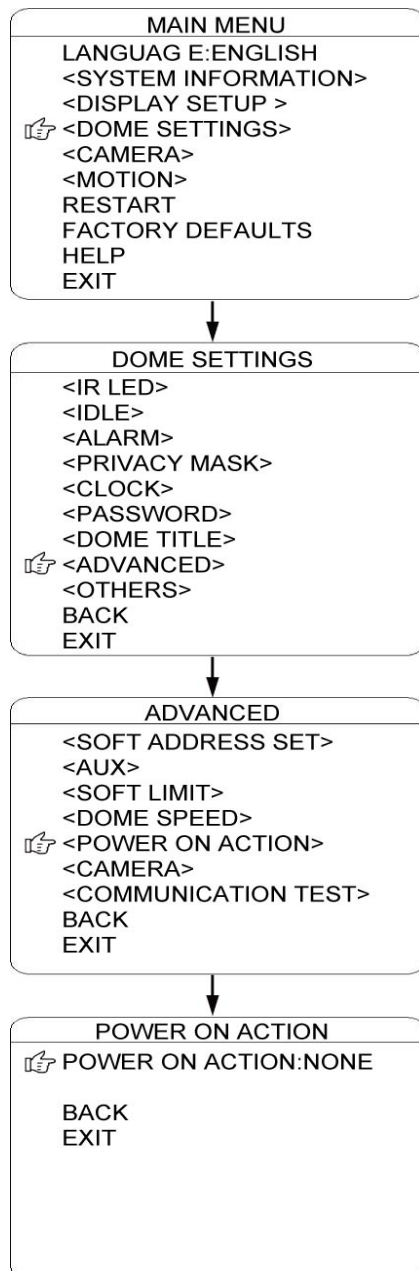


To make a selection of the dome speed, the user can enter this menu to set up.

Move the cursor to DOME SPEED and press IRIS OPEN to enter. Move the joystick to select the dome speed when doing the pan movement.

Move the cursor to BACK/EXIT and press IRIS OPEN to run the command of BACK or EXIT.

POWER ON ACTION

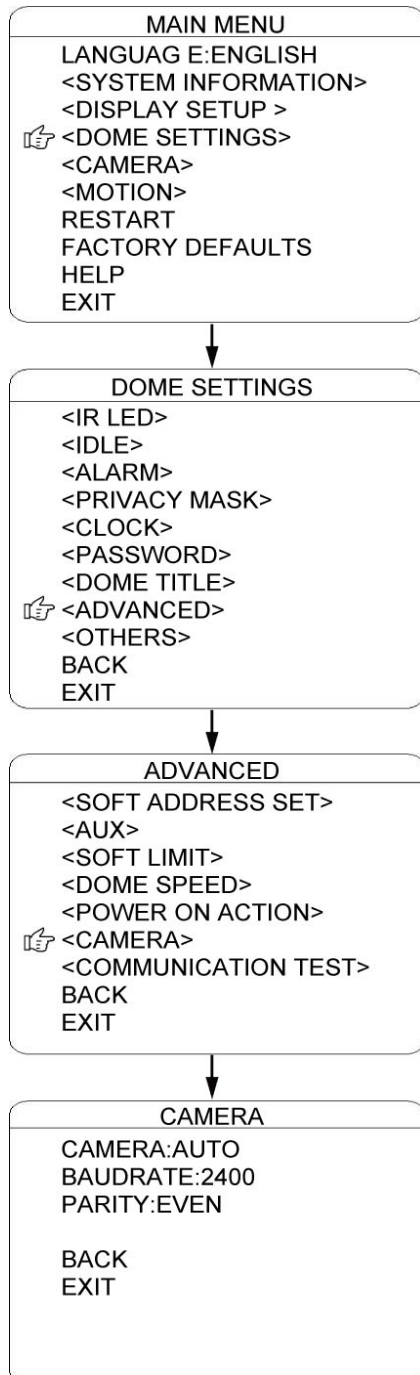


The user can define the dome action when power on,

Move the cursor to POWER ON ACTION and press IRIS OPEN to enter the mode of setup.

- NONE (default) No action.
- PRESET Dome goes to preset. (Default as Preset 1)
- SCAN Dome starts auto scan (Default as Auto Scan 1)
- SEQ Dome runs auto cruise (Default as Auto Cruise 1)
- PATTERN Dome runs pattern (Default as Pattern 1)

|| CAMERA



The dome can automatically recognize the main camera modules in the market. For the cameras it can not recognize, the user can set up here.

1. CAMERA:

Move the cursor here and press IRIS OPEN to enter the setup mode. Move the joystick up and down to select the camera types. Press IRIS OPEN to confirm.

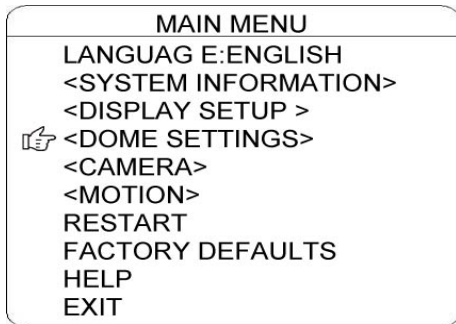
2. BAUDRATE:

Move the cursor here and press IRIS OPEN to enter the setup mode. Move the joystick up and down to select the baud rate. Press IRIS OPEN to confirm.

3. PARITY:

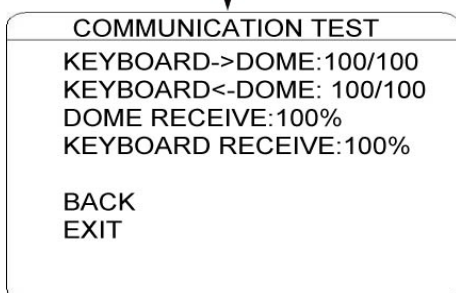
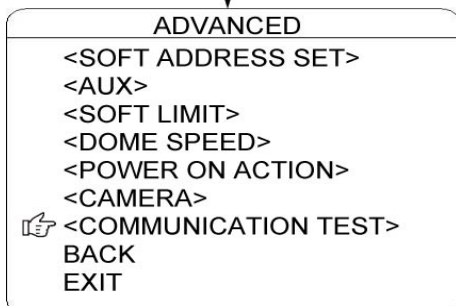
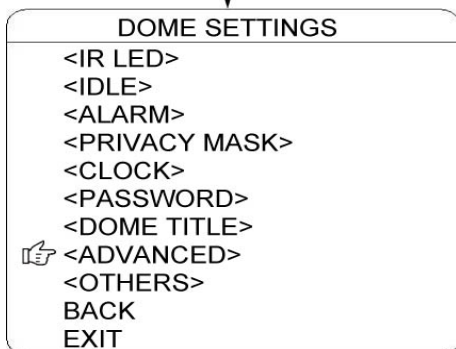
Move the cursor here and press IRIS OPEN to enter the setup mode. Move the joystick up and down to select the parity mode. Press IRIS OPEN to confirm.

COMMUNICATION TEST

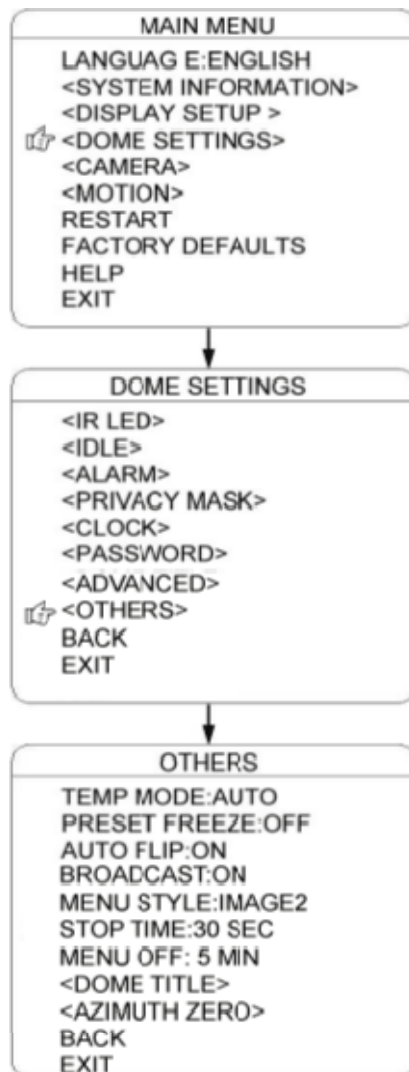


The dome can do self diagnosis for the communications between keyboard and speed dome. The test needs to match with our software VK200.

If the self testing is successfully finished via the software, the system will show up the testing results as left diagram.



OTHERS



The user can set up TEMP MODE, INTERNAL FAN, PRESET FREEZE, STOP TIME. MENU OFF TIME and NORTH ZERO here under the menu of "OTHERS"

1. TEMP MODE:

To set up the control mode of dome fans and heaters. It includes three modes of AUTO, FAN HIGH SPEED and FAN LOW SPEED.

2. PRESET FREEZE:

This feature freezes the scene on the monitor when going to a preset. This allows smooth switching from one preset scene to another.

3. AUTO FLIP:

When the camera tilts downward and goes just beyond the vertical position, the camera will rotate 180 degrees. The user can press IRIS OPEN to enter and choose to turn on/off this function.

4. STOP TIME:

To set up the time that dome will stops after receiving the last command. Options include 5/15/30/60 Sec.

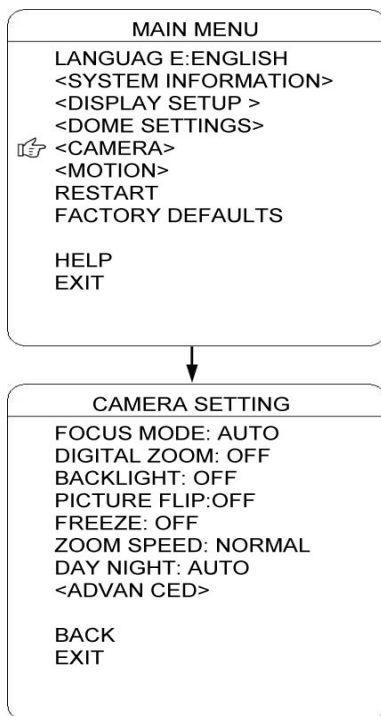
5. MENU OFF TIME:

To set up the time that OSD menu be off when no operations. Options include 1/2/5/10 min.

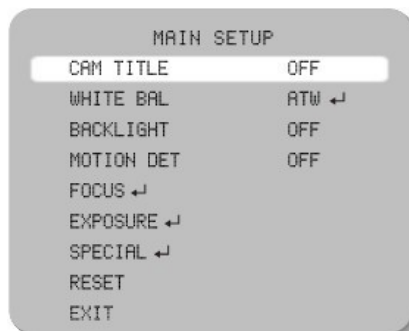
6. NORTH ZERO:

To set up the due north of the dome (pan 0°) Move the cursor here and press IRIS OPEN to enter. Move the joystick to control the dome to pan 0° and press IRIS OPEN to confirm.

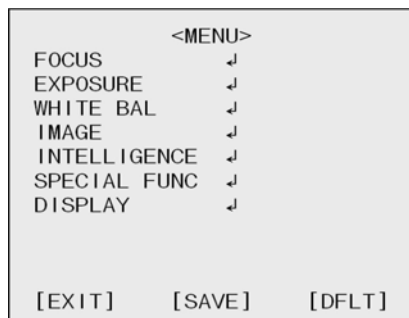
CAMERA (Module)



Note: the above camera menu supports only SONY FCB-EX1020.



Note: SCM-2270 & SCM-2370 camera set using the embedded module itself menu settings.



Note: CZ36SCM camera set using the embedded module itself menu settings

The user can make adjustment for the cameras under this menu.

1. FOCUS MODE:

AUTO FOCUS allows the camera lens to remain in focus during zooming in, zooming out and pan/tilt movement. Move the cursor here and press IRIS OPEN to enter. Setup the mode: AUTO or "OFF" and press IRIS OPEN to confirm. When auto focus is off, the user needs to do manual focus.

2. DIGITAL ZOOM:

Move the cursor here and press IRIS OPEN to enter. Setup the function to be "ON" or "OFF".

3. BACKLIGHT:

Move the cursor here and press IRIS OPEN to enter. Setup the function to be "ON" or "OFF".

4. PICTURE FLIP:

To set up the Tilt flip for the dome. Move the cursor here and press IRIS OPEN to enter. Setup the function to be "ON" or "OFF".

5. FREEZE:

If turn on this function, the screen image will be frozen until it is turned off. Move the cursor here and press IRIS OPEN to enter. Setup the function to be "ON" or "OFF".

6. ZOOM SPEED:

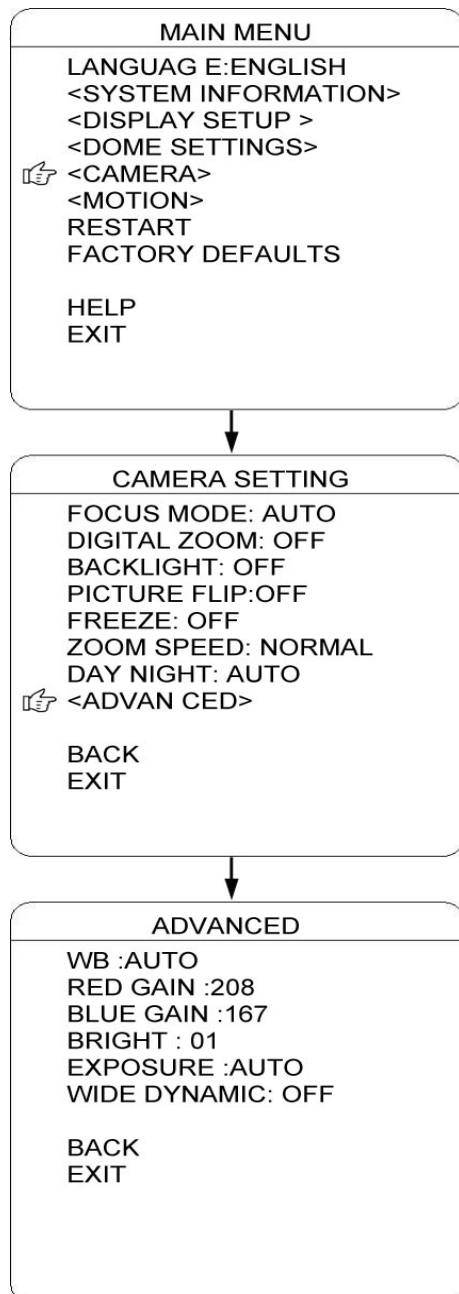
To set up the zoom speed of Low, Normal and high when doing the zoom in and out. Move the cursor here and press IRIS OPEN to enter. Move the joystick to choose and press IRIS OPEN to confirm

7. DAY NIGHT:

To set up the day and night mode of AUTO, CLOUR and B/W. Move the cursor here and press IRIS OPEN to

enter. Move the joystick to choose and press IRIS OPEN to confirm

► CAMERA ADVANCED



The user can set up more detailed parameters of camera here under the menu of CAMERA ADVANCED.

1. WB:

To set up the white balance of the camera. Options include AUTO, MANUAL, INDOOR and OUTDOOR. The user can select different mode according to the different locations.

2. RED GAIN:

Only can be adjusted when WB is set as manual.

3. BLUE GAIN:

Only can be adjusted when WB is set as manual.

4. BRIGHT:

To set up the brightness of the image. Move the cursor here and press IRIS OPEN to enter. Move the joystick to adjust and press IRIS OPEN to confirm

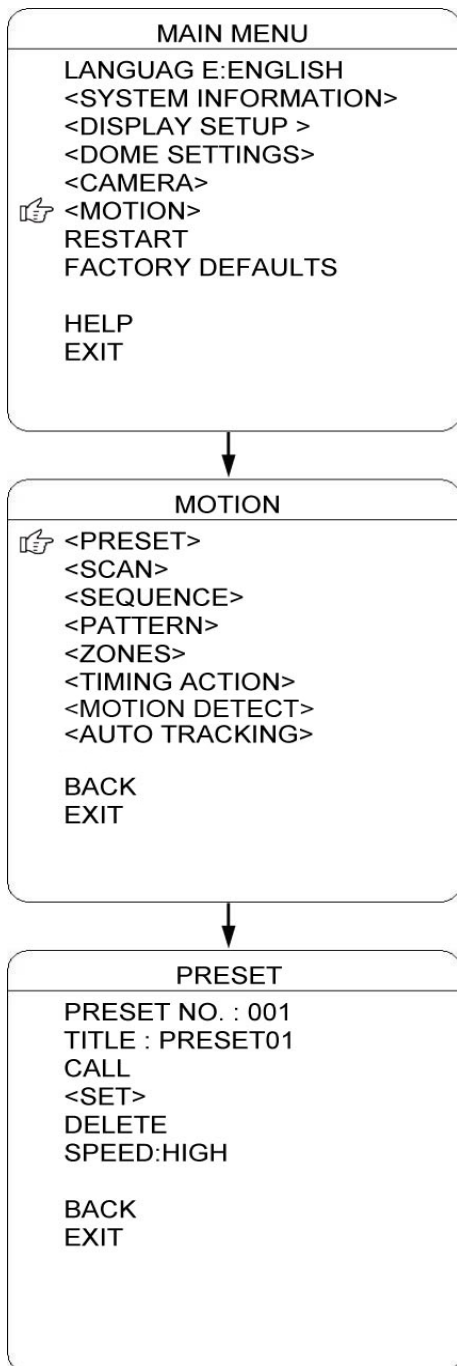
5. EXPOSURE:

To set up the exposure mode of the camera. Options include AUTO, MANUAL, SHUTTER PRIORITY, IRIS PRIORITY and BRIGHT PRIORITY. The user can select different mode according to the different locations.

6. WIDE DYNAMIC:

Wide dynamic range (WDR) balances the brightest and darkest sections of a scene to produce a picture that is perfectly balanced in light and clarity. Available settings are OFF, LOW, MID and HIGH. The default setting is OFF.

PRESET



The dome supports 220 presets. Please check the following steps to set up a preset.

1. PRESET NO.:

Move the cursor here and press IRIS OPEN to enter the setup of Preset Number. Move the joystick to select a preset number (1-64 and 100-255) and press IRIS OPEN to confirm.

2. TITLE:

Move the cursor here and press IRIS OPEN to enter the setup of Preset Title. Check the detailed above in DOME TITLE settings.

3. <SET>:

Move the cursor here and press IRIS OPEN to enter. Move the dome to a defined position as preset point and press IRIS OPEN to save the preset position.

4. CALL:

Move the cursor here and press IRIS OPEN to call up the current preset.

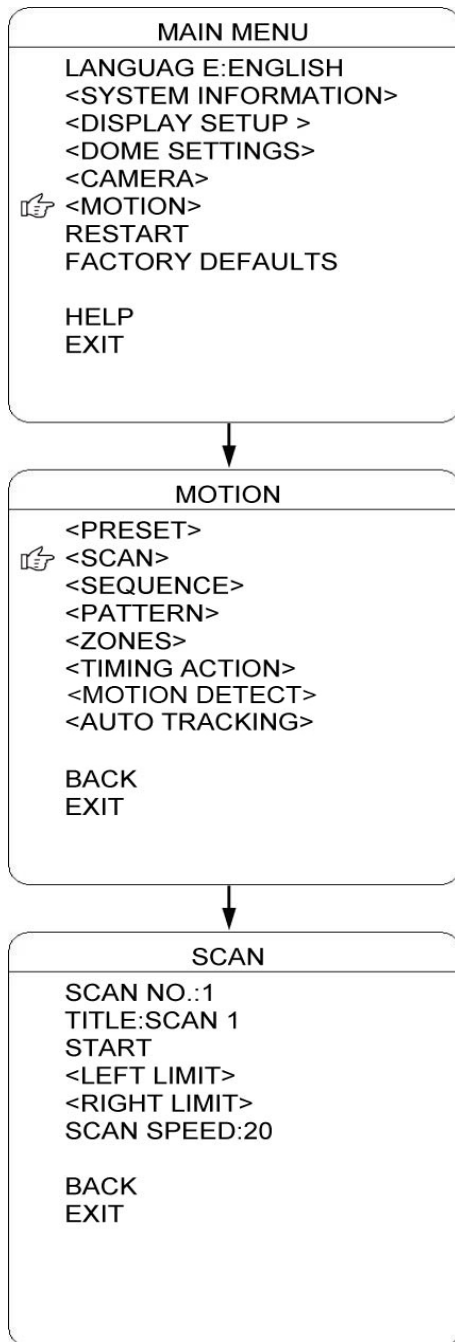
5. DELETE:

Move the cursor here and press IRIS OPEN to delete the current preset.

6. SPEED:

Move the cursor here and press IRIS OPEN to set up the preset call up speed of LOW, MID and HIGH.

|| SCAN



The dome supports 8 groups of auto scan. Please check the following steps to set up a scan.

1. SCAN NO.:

Move the cursor here and press IRIS OPEN to enter the setup of SCAN Number. Move the joystick to select a preset number (1-8) and press IRIS OPEN to confirm.

2. TITLE:

Move the cursor here and press IRIS OPEN to enter the setup of SCAN Title. Check the detailed above in DOME TITLE settings.

3. <LEFT LIMIT>:

Move the cursor here and press IRIS OPEN to enter. Move the dome to a defined position as left limit and press IRIS OPEN to save this left boundary.

4. <RIGHT LIMIT>:

Move the cursor here and press IRIS OPEN to enter. Move the dome to a defined position as right limit and press IRIS OPEN to save this right boundary.

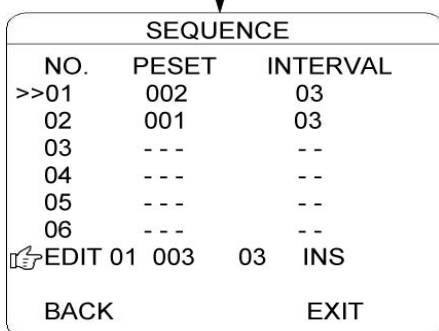
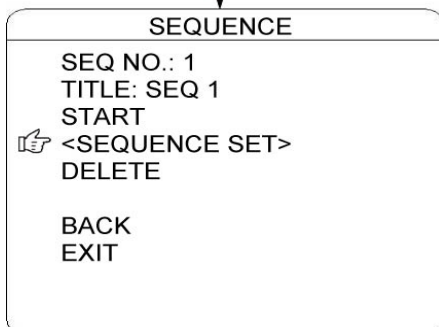
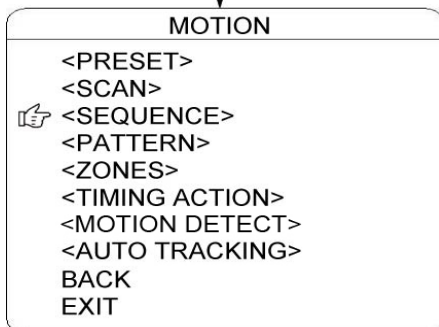
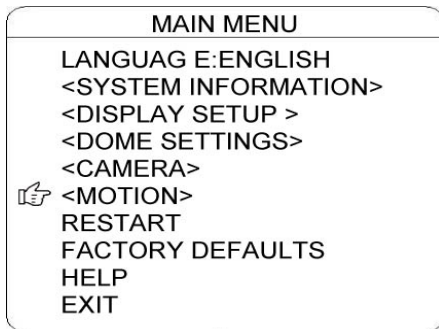
5. START:

Move the cursor here and press IRIS OPEN to start the current scan.

6. SCAN SPEED:

Move the cursor here and press IRIS OPEN to set up the scan speed ranging 1-30.

|| AUTO CRUISE (SEQUENCE)



The dome supports 8 groups of auto cruise and each cruise supports 32 presets. . Please check the following steps to set up cruise.

1. SEQ NO.:

Move the cursor here and press IRIS OPEN to enter the setup of Sequence Number. Move the joystick to select a preset number (1-8) and press IRIS OPEN to confirm.

2. TITLE:

Move the cursor here and press IRIS OPEN to enter the setup of Sequence Title. Check the detailed above in DOME TITLE Settings.

3. <SEQUENCE SET>:

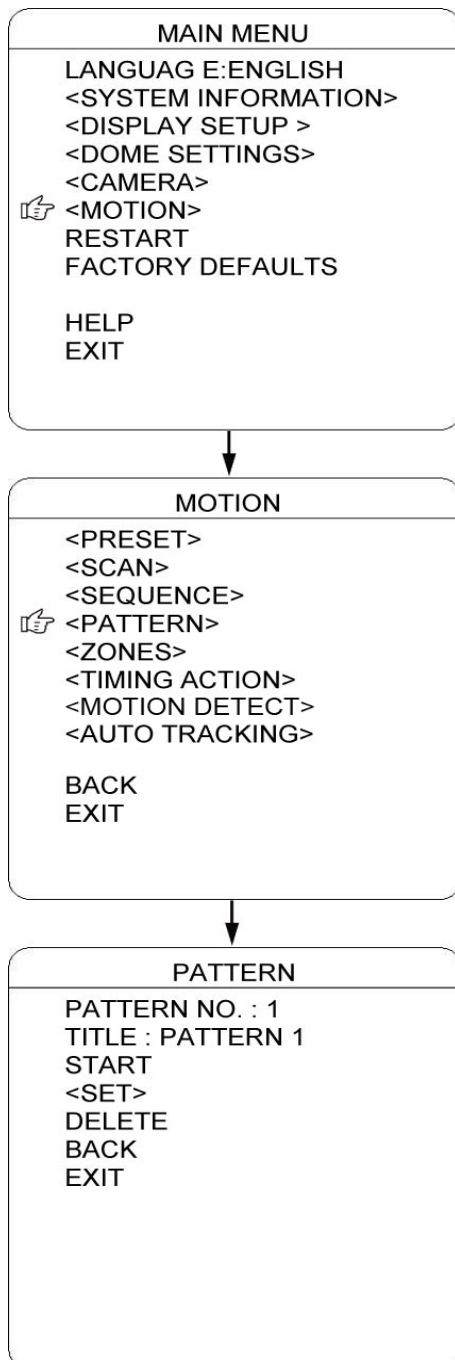
Move the cursor here and press IRIS OPEN to enter. Move the cursor to EDIT and press IRIS OPEN enter edit mode of sequence. Move the joystick left and right to select each item.

- When the < > is on the item NO., move joystick up or down to select the Serial NO. of the preset in a sequence. There are up to 32 presets in each sequence.
- When the < > is on the item PRESET, move the joystick up or down to select the preset NO. that the user wants to add in the sequence.
- When the < > is on the INTERVAL, move the joystick up or down to select the interval time between each preset.
- When the < > is on the last item, move the joystick up or down to select edition mode as "INS (insert)", "ok" and "delete".
- Press IRIS OPEN when selecting INS to insert the settings into the position of current Serial No.
- Press IRIS OPEN when selecting OK to override the settings of Current Serial No.
- Press IRIS OPEN when selecting delete to delete the settings of the Current Serial No.
- Press IRIS OPEN to save all the setting and press IRIS CLOSE to exit.

4. DELETE/START:

Move the cursor here and press IRIS OPEN to delete/start the current sequence.

II PATTERN



The dome supports 4 pattern tours and each pattern cover at most 10 Minutes of 500 commands. Please check the following steps to set up a pattern.

1. PATTERN NO.:

Move the cursor here and press IRIS OPEN to enter the setup of Pattern Number. Move the joystick to select a pattern number (14) and press IRIS OPEN to confirm.

2. TITLE:

Move the cursor here and press IRIS OPEN to enter the setup of Pattern Title. Check the detailed above in DOME TITLE settings.

3. <SET>:

Move the cursor here and press IRIS OPEN to enter. Move the dome up/down/left right, make the zoom in/out and press IRIS OPEN to save the pattern tour.

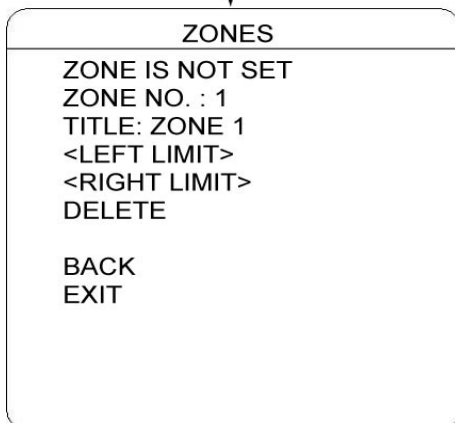
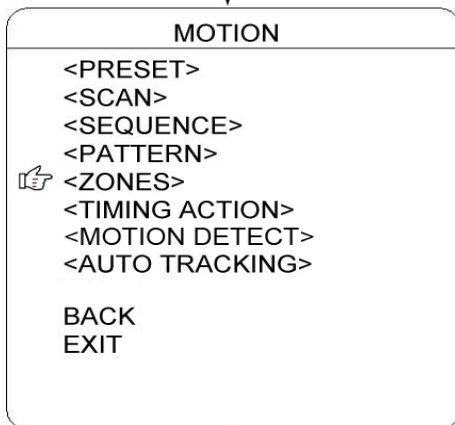
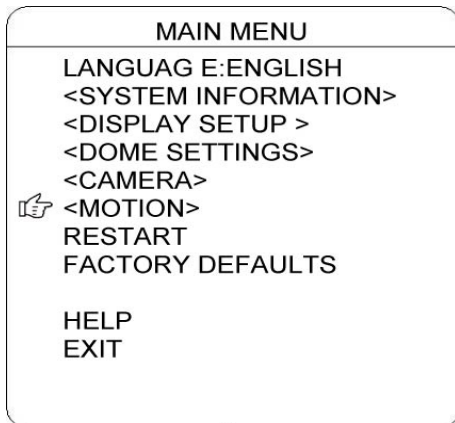
4. START:

Move the cursor here and press IRIS OPEN to start the current pattern tour.

5. DELETE:

Move the cursor here and press IRIS OPEN to delete the current pattern tour.

|| ZONES



The user can set up zone title when the camera moves to a defined location, which will make it much easier for the user to identify the location. The dome supports 8 zone titles.

Please check the following steps to set up a zone

1. ZONE NO.:

Move the cursor here and press IRIS OPEN to enter the setup of Zone Number. Move the joystick to select a zone number (1-8) and press IRIS OPEN to confirm.

2. TITLE:

Move the cursor here and press IRIS OPEN to enter the setup of Zone Title. Check the detailed above in DOME TITLE settings.

3. <LEFT LIMIT>:

Move the cursor here and press IRIS OPEN to enter. Move the dome to a defined position as left limit and press IRIS OPEN to save this left boundary.

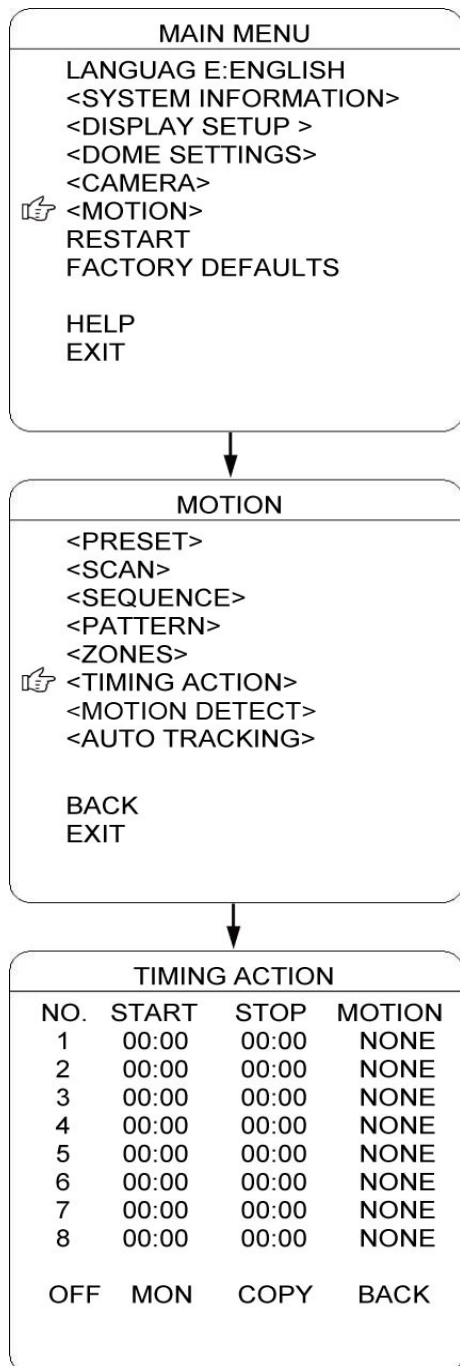
4. <RIGHT LIMIT>:

Move the cursor here and press IRIS OPEN to enter. Move the dome to a defined position as right limit and press IRIS OPEN to save this right boundary.

5. DELETE:

Move the cursor here and press IRIS OPEN to delete the current zone.

|| TIMING ACTION



TIMING ACTION allows the user to set up the actions of the dome in 7 days (each day with 8 timing segments). When fishing the setup, the dome will do the actions according to the setup motion during the defined time segment.

1. NO.:

Here shows the day within a week. Move the cursor here and press IRIS OPEN to enter. Move joystick up or down to select the Serial No. (1-8) for the timing action. Press IRIS OPEN to confirm.

2. START:

To set up the start time for the defined motion within this time segment. Press IRIS OPEN to confirm.

3. STOP:

To set up the stop time for the defined motion within this time segment. Press IRIS OPEN to confirm.

4. MOTION:

To setup the motion that will be operated in this time segment. The motion includes: NONE. PRESET 1-8, SCAN 1-4, SEQUENCE 1-4 and PATTERN 1-4.

5. ON/OFF:

Move the cursor here and press IRIS OPEN to enter to enable or disable this function. Press IRIS OPEN to confirm.

6. COPY:

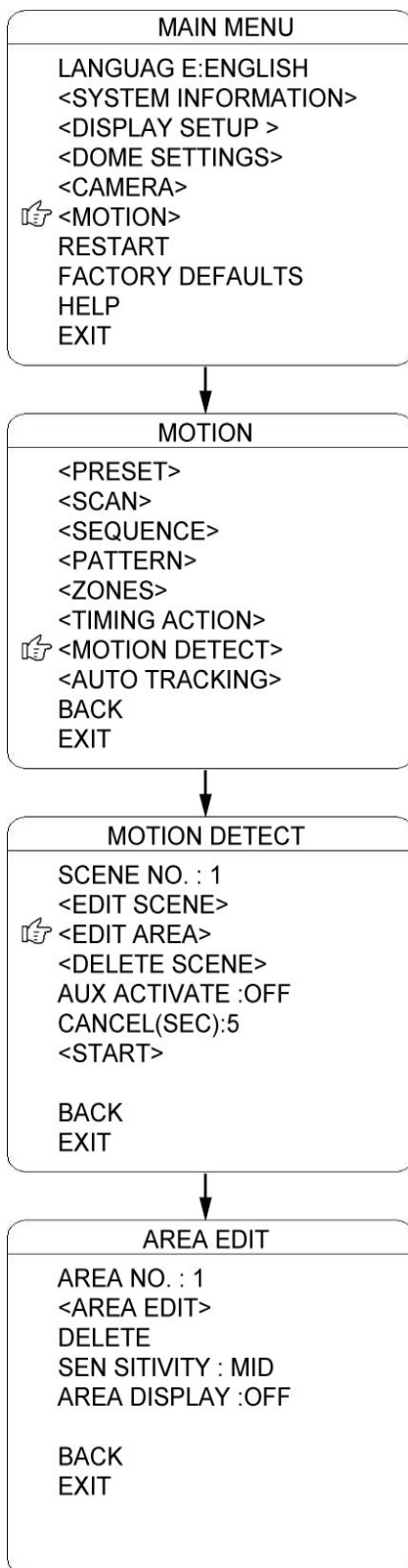
The user could set up each 8 segment of 7 days separately or can copy the finished setting for one day to the current day. Move the cursor there and press IRIS OPEN to copy the settings.

7. BACK:

Press IRIS OPEN to save and be back to last menu.

NOTE: It is not allowed to set up the same time segment during one day. And the time segment can not exceed 00:00. During the timing action segment, the defined action will be stopped if the user moves the dome. If there is operation during the defined time segment, the action will re-activated as long as it is in the defined timing action segment.

MOTION DETECT



The user can set up 8 motion detection scenes (each scene with 4 detecting areas) under this menu. The alarm output will be triggered when moving objects enter these detecting areas

1. SCENE NO.:

Move the cursor here and press IRIS OPEN to enter the setup of Scene Number. Move the joystick to select a preset number (1-8) and press IRIS OPEN to confirm.

2. <EDIT SCENE>:

Move the cursor here and press IRIS OPEN to enter. Move the dome to a user-defined detecting scene. Press IRIS OPEN to confirm.

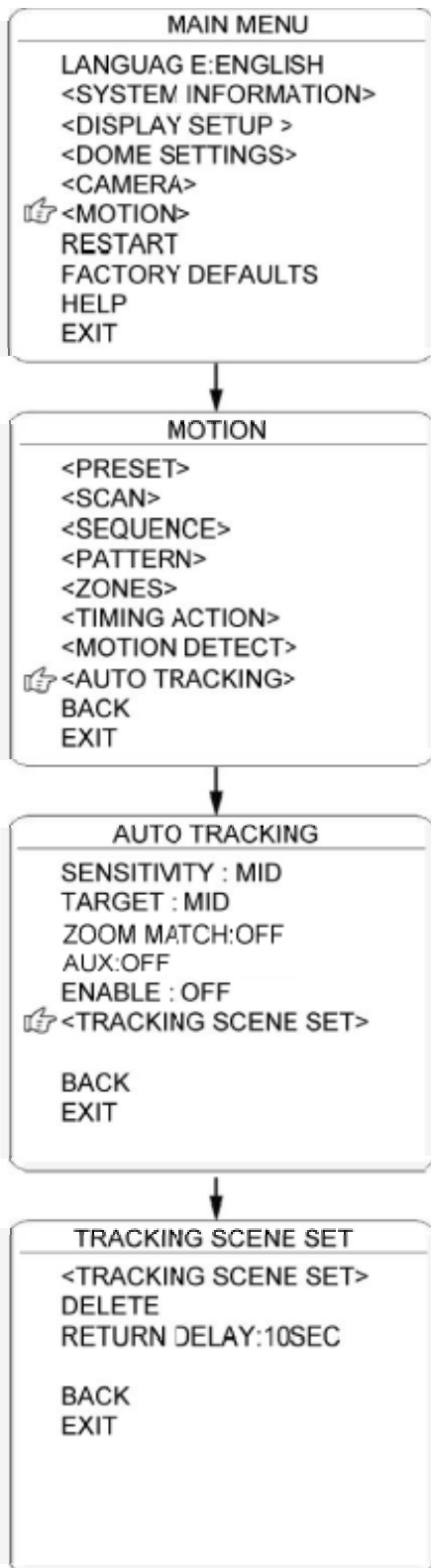
3. <EDIT AREA>:

Move the cursor here and press IRIS OPEN to enter the menu of AREA EDIT.

- AREA NO.: Move the cursor here and press IRIS OPEN to enter the setup of AREA Number. Move the joystick to select a preset number (1-4) and press IRIS OPEN to confirm.
- <AREA EDIT>: Move the cursor here and press IRIS OPEN to enter the setup of AREA EDIT. The screen will display frame with Serial No. The user can move the frame to the top left corner of the wanted detecting area and press IRIS OPEN to confirm. Then move the joystick to adjust the size of the detecting area and press IRIS OPEN to confirm
- DELETE: Move the cursor here and press IRIS OPEN to delete the current detecting area.
- SENSITIVITY: Move the cursor here and press IRIS OPEN to enter. Select among LOW, MID and HIGH and press IRIS OPEN to confirm the sensitivity.
- DELETE SCENE: Move the cursor here and press IRIS OPEN to delete the current scene.
- AUX ACTIVATE: The dome can activate the alarm aux output when detecting the moving object. Press IRIS OPEN to enter and select between "ON" and "OFF" to activate or deactivate this function.
- CANCEL (SEC): Here means when the alarm aux output is activated by the detecting function, for how long it will last before the aux output will be closed. The time ranging 1-60 Sec.

START: Move the cursor here and press IRIS OPEN to start the function of motion detection.

AUTO TRACKING



Under the auto tracking mode, the dome will auto track the moving objects entering the scene. When the object is moving out of the scene, the dome will return to a preset position as defined after the defined time.

1. SENSITIVITY:

The user can set up the auto tracking sensitivity under this menu. When set as LOW, the dome will do auto tracking when obvious object entering the screen. When set as HIGH, the dome will do auto tracking when small object moving into the screen. Move the cursor there and press the IRIS OPEN to enter. The options include: LOW, MID and HIGH.

2. TARGET:

To set up the size of the tracking object. The options include Large. MID and SMALL.

3. AUX:

If set "ON" here, the object auto tracking will activate alarm aux output at the same time. Press IRIS OPEN to enter to select "ON" or "OFF"

4. ZOOM MATCH:

Under the auto tracking model, if turn on the function of ZOOM MATCH, the dome will do zooming in and out during auto tracking to keep the right proportion between the object and background. Move the cursor there and press the IRIS OPEN to enter. And move the joystick to select the optical zoom.

5. ENABLE:

Move the cursor here and press IRIS OPEN to enter to select "ON" or "OFF" to enable or disable this function.

6. TRACKING SCENE SET:

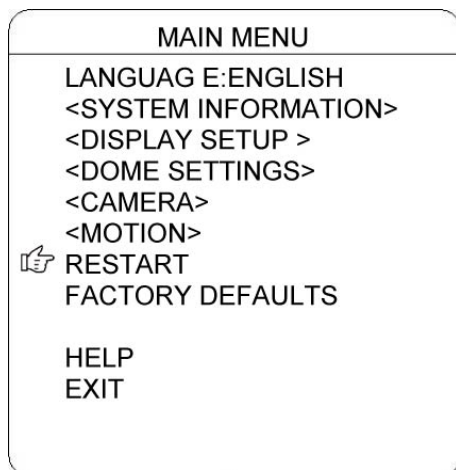
Here the user can set up the scene that the dome will get back to when finishing the action of auto tracking. Move the cursor here and press IRIS OPEN to enter. Move the dome to the wanted scene and press IRIS OPEN to confirm.

7. DELETE: Move the cursor here and press IRIS OPEN to delete the return scene.

8.RETURN DELAY:

To set up the time that dome will waiting to return to this scene.

|| RESTART



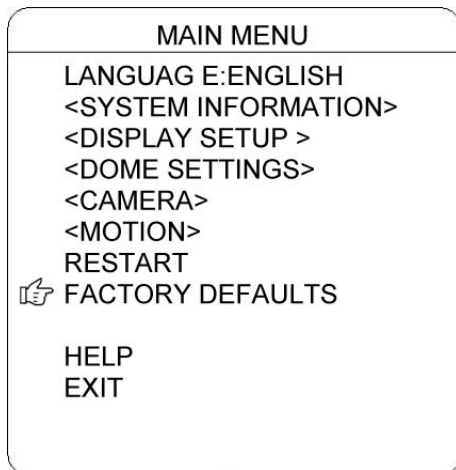
The dome allows the user to reset its settings remotely under this menu.

Move the cursor here and press IRIS OPEN to enter.

Select “OK” or “CANCEL” to continue the reset or cancel the reset.



II FACTORY DEFAULTS



FACTORY DEFAULTS will allow the user to recover all the setting to factory default setting.

Move the cursor here and press IRIS OPEN to enter.

Select “OK” or “CANCEL” to continue the reset or cancel the reset.



SPECIFICATIONS

Product No.	15-CD52WI	15-CD55TWA	15-CD55TWAII
Video Signal System	NTSC / PAL		
CCD	1/4" Interline CCD		
Effective Pixels	SCM-2270(SAMSUNG): NTSC: 768(H)×494 (V) / PAL: 752(H)×582 (V)		
	CZ36SCM(COP): NTSC: 1028(H)×508(V)520K / PAL: 1028(H)×596(V)610K		
	SCM-2370(SAMSUNG): NTSC: 768(H)×494 (V) / PAL: 752(H)×582 (V)		
	FCB-EX1020(SONY): NTSC: Approx.380.000 pixels/PAL: Approx.440.000 pixels		
Horizontal Res.	SCM-2270(SAMSUNG): 560 TV Line		
	CZ36SCM(COP): 700 TV Line		
	SCM-2370(SAMSUNG): 560 TV Line		
	FCB-EX1020(SONY): 550 TV Line		
Zoom	SCM-2270(SAMSUNG): x 27 Optical Zoom, x 16 Digital Zoom		
	CZ36SCM(COP): x 36 Optical Zoom, x 32 Digital Zoom		
	SCM-2370(SAMSUNG): x 37 Optical Zoom, x 16 Digital Zoom		
	FCB-EX1020(SONY): x 36 Optical Zoom, x 12 Digital Zoom		
Focal length	SCM-2270(SAMSUNG): f 3.5mm~95mm		
	CZ36SCM(COP): f 3.4mm~122.4mm		
	SCM-2370(SAMSUNG): f 3.5 mm~129.5 mm		
	FCB-EX1020(SONY): f 3.4mm~122.4mm		
S/N	Ratio 50 dB (AGC Off)		
Min. Illumination	0.2 Lux /F1.67(50 IRE)Color / 0.02 Lux F1.67 (50 IRE)B/W		
Day & Night	Auto / Day(Color) / Night(ICR, B/W)		
Focus	Auto / Manual / Semi Auto		
Iris	Auto / Manual / Semi Auto		
Shutter	1/1~ 1/120000 sec		
AGC	Low / Middle / High / Off		
White Balance	Auto / Manual(Red, Blue Gain Adjustable)		
BLC	Normal / High / Off		

Pan Speed	0.01~120°/S Range:360°endless	0.01~600°/S Range:360°endless	0.01~360°/S Range:360°endless
Tilt Speed/Range	0.01~120°/S Range:-5°~90°	0.01~120°/S Range:-10°~90°	0.01~120°/S Range:-5°~90°
Preset	256 Preset(Label)		
	Preset Accuracy +/- 0.01°		
Auto Cruising(Sequence)	8 cruising tracks, each cruising tracks has 32 preset positions, user-defined dwell time		
Auto Scan	8 auto scan tracks, user-defined left and right boundaries and scan speed		
Pattern	4 Pattern, each pattern 600 sec or 500 instructions		
Other Functions	Auto flip, Auto Parking, Power Up Action etc.		
Auto Track	X	X	Yes
Schedule	Timing actions for 7 days of programmable schedule		
Communication	RS-485(9600, 4800, 2400 Selectable or change from OSD menu)		
Protocol	Pelco-D, Pelco-P, Auto identify		
Privacy Zone	8 Zone		
Alarm Input	X	7 Input	7 Input
Alarm Output	X	2 Output	2 Output
OSD	Menu / PTZ information etc		
IR LED	9 pcs Hi-Power	X	10 pcs Hi-Power
Projection Distance	120M	X	150M
Fan and Heater	Yes		
Wiper	Yes	X	Yes
IP Protection	IP66		
Power	DC12V / 5A	DC12V / 4A	DC12V / 5A
Dimension	Ø210x 304(H)mm	Ø228 x 310(H)mm	Ø228 x 341(H)mm
Weight	4.8Kg	4.5Kg	6.3 Kg
Operating Temp.	-25°C~+55°C	-20°C~+55°C	-25°C~+55°C

OPTIONAL BRACKET

► Ceiling Bracket (CD03BU1)



► Pole Bracket (CD04BH)



► Inside Corner Bracket (CD06BH)



► Outside Corner Bracket (CD05BH)



V.20140115